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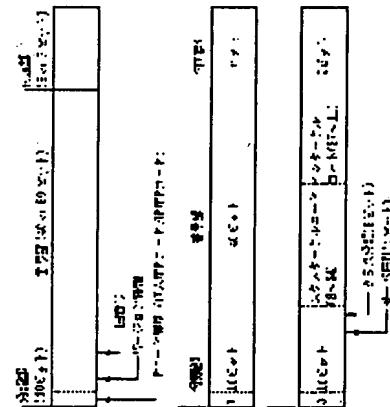
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## (54) CODE GENERATING METHOD, TERMINAL DEVICE, METHOD FOR PROCESSING CODE, NUMBER ISSUING DEVICE, AND CODE NUMBER ISSUING METHOD

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce trouble and misinput in a code input by inputting a 1st code part which is predetermined, adding a 2nd code part to the 1st code part, and generating and outputting an integrated code.

**SOLUTION:** It is decided which of a P code for an individual and a P code for IP an inputted P code is and a P code kind bit is set. When a number inputted to a P service terminal is a continuous number of less than 100 digits, it is judged that a telephone number, i.e., an individual P code is inputted and a bit 1 is set by P code kinds. When a number string having every four digits sectioned with a hyphen is inputted as a P code, it is judged that the input is not a telephone number, but a P code for IP, and 0 is set to the P code kind bit. Then version information is set and the country number representing the country where the P service terminal is installed is set. The contents of a classification part are automatically added by the terminal when the P code is inputted to the P service terminal.



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**CLAIMS**

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**[Claim(s)]**

[Claim 1] Are the approach of generating the code which means predetermined processing, and the 1st code part decided beforehand is inputted through a predetermined input means by the user. The code generation approach characterized by generating the code which added to said 1st code part into which the 2nd predetermined code part was inputted in said input means, and was united with it, and outputting said unified code outside.

[Claim 2] Said processing is the code generation approach according to claim 1 characterized by being the processing which prints the information corresponding to said code.

[Claim 3] The code generation approach according to claim 1 characterized by outputting said code outside through a network.

[Claim 4] Said 1st code part is the code generation approach according to claim 1 characterized by including the user-identification child who identifies a user.

[Claim 5] Said user-identification child is the code generation approach according to claim 4 characterized by including a user's subscriber phone number.

[Claim 6] Said 1st code part is the code generation approach according to claim 1 characterized by being the information identification code which specifies the information on said processing object.

[Claim 7] Said information identification code is the code generation approach according to claim 6 characterized by including the information provider identifier the information provider was beforehand decided to be.

[Claim 8] Furthermore, said 1st code part is the code generation approach according to claim 1 characterized by consisting of a part for the main code section, and a sub-code part.

[Claim 9] Said sub-code part is the code generation approach according to claim 8 characterized by including the predetermined notation showing the classification of said processing.

[Claim 10] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing e-mail.

[Claim 11] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing I/O of the data by the user.

[Claim 12] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing service using a frame.

[Claim 13] The code generation approach according to claim 12 characterized by for the service using said frame being choosing the frame which registered one or more of other codes, and being performing processing corresponding to one or more of other codes registered into the selected frame concerned.

[Claim 14] The code generation approach according to claim 13 characterized by the ability to perform registration of one or more codes, modification, and deletion to said frame by the user with service using said frame.

[Claim 15] Said code is the code generation approach according to claim 1 characterized by calling the processing corresponding to [ when linked from other codes ] a code besides the above in said processing.

[Claim 16] Said 2nd code part is the code generation approach according to claim 1 characterized by including the flag which distinguishes whether the information which identifies a user is included in said 1st code part, or the information which identifies an information provider is included.

[Claim 17] Said 2nd code part is the code generation approach according to claim 1 characterized by including version information.

[Claim 18] Said 2nd code part is the code generation approach according to claim 1 characterized by including country identification information.

[Claim 19] A terminal unit including an input means according to claim 1 to 18.

[Claim 20] The art of a code which is an art showing predetermined processing of a code, inputs the 1st code part by the user, adds the 2nd code part to said 1st code part, deals with united said 1st code part and 2nd code part as a code, and performs processing corresponding to this code.

[Claim 21] Numbering equipment possessing a means to give a part for the main code section which is numbering equipment which generates the code which identifies information, and identifies an information input user to the information which should be registered, and a means to add the sub-code part relevant to said information which should be registered to said main code part.

[Claim 22] Numbering equipment according to claim 21 characterized by having further a registration means to register with the code containing a means to input said information which should be registered, and said main code part which was united in said information and a \*\* sub-code part.

[Claim 23] Said information which should be registered is numbering equipment according to claim 21 characterized by being advertising information.

[Claim 24] Said information which should be registered is numbering equipment according to claim 21 characterized by being the information that it does not advertise.

[Claim 25] Said information which should be registered is numbering equipment according to claim 21 characterized by being a user's dispatch information.

[Claim 26] Said information which should be registered is numbering equipment according to claim 21 characterized by being mail addressed to a user.

[Claim 27] Said information which should be registered is numbering equipment according to claim 21 characterized by being frame information.

[Claim 28] Said frame is numbering equipment according to claim 27 characterized by the ability to print the information corresponding to said one or more of other codes, when it is possible to register one or more of other codes and printing of this frame is specified.

[Claim 29] Furthermore, numbering equipment according to claim 21 characterized by having an assignment means to specify said code.

[Claim 30] When a part for the main code section of the code which should be linked is specified with said assignment means, said addition means is numbering equipment according to claim 29 characterized by adding the sub-code part which is not used among the sub-code parts corresponding to said main code part to said main code part.

[Claim 31] The user to whom said main code part is assigned is numbering equipment according to claim 29 which specifies the sub-code part corresponding to said main code, and is characterized by being usable in the code concerned.

[Claim 32] Furthermore, the code to which it pointed so that it might have a deletion means to direct to delete said code and might delete with a deletion means is numbering equipment according to claim 29 characterized by being deleted with the information corresponding to this code.

[Claim 33] Said main code part is numbering equipment according to claim 21 characterized by including the identification code showing a registration place.

[Claim 34] Said main code part is numbering equipment according to claim 21 characterized by including a user's identification code.

[Claim 35] Are the code numbering approach in the storage which matches and memorizes information and a code, and within limits permitted according to the magnitude of said storage The code numbering approach characterized by numbering the 1st code for specifying the information memorized to the storage, and numbering the 3rd code containing the 2nd code beforehand decided according to the magnitude, and said 1st code which numbered to said storage.

[Claim 36] Said magnitude is the code numbering approach according to claim 35 characterized by corresponding to the capacity of storage of said storage.

[Claim 37] Said 2nd code is the code numbering approach according to claim 35 or 36 characterized by including the information which shows the magnitude of said storage.

[Claim 38] Said 2nd code is the code numbering approach according to claim 35 to 37 characterized by including the information which specifies said storage.

[Claim 39] The art of the code characterized by identifying the bit which specifies the store in said code, and the bit which specifies the information which the store concerned has by the magnitude distinction bit of the inputted code.

[Translation done.]

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]****[0001]**

[Field of the Invention] This invention relates to the generation method of the code showing the service which prints information to a terminal, a terminal unit, the art of a code, numbering equipment, and the code numbering approach.

[Description of the Prior Art] as the approach of providing a user with information with development of communication technology in recent years -- 1: -- there are Internet Web, 2:Internet push type news distribution service, 3:FAX information ejection service, 4:newspaper journal attachment mold data claim Qu Bon sending, 5:free dial inquiry, 6:data claim postcard sending, etc.

[Problem(s) to be Solved by the Invention] By the spread of personal digital assistants, although the communications service by text had prospered, since the display capacity of a personal digital assistant had a limit of size, a color, resolution, etc., etc., I thought that implementation of the detailed information offer service which complements it was a technical problem.

[0002] Although what is mentioned above as the approach of detailed information acquisition of a conventional type exists, there is a limitation, respectively.

[0003] 1 and 2 have required the time and effort which it is not only limited to PC or a terminal user well versed in the Internet environment, but finds out URL required for access to information to acquire. Print capacity (monochrome, pudding TOBURE view) has a limit 3 is not only bound by the FAX user, but, and output costs (telephone charges, paper cost, etc.) are also user burdens. As for the ability of a user to obtain information, although many and unspecified users of 4&5&6 are available, after requiring, after several hours or several days, moreover, the information provider side also needed to prepare physical demand processing organization, and information offer cost has started.

[0004] thus -- the code which identifies the information in case the utilization in the informational future is foreseen and the information is registered with the conventional technique -- a registrant -- or the user needed to input all data, there was a problem of complicatedness, and even if not complicated, there was a problem of an incorrect input.

[Means for Solving the Problem] This invention was proposed in order to solve the trouble of the above-mentioned conventional technique.

[0005] In order to attain the above-mentioned technical problem the code generation approach according to claim 1 Are the approach of generating the code which means predetermined processing, and the 1st code part decided beforehand is inputted through a predetermined input means by the user. The code which added to said 1st code part into which the 2nd predetermined code part was inputted in said input means, and was united with it is generated, and it is characterized by outputting said unified code outside.

[0006] The code generation approach according to claim 2 is the code generation approach concerning claim 1, and is characterized by said processing being processing which prints the information corresponding to said code.

[0007] The code generation approach according to claim 3 is the code generation approach concerning claim 1, and is characterized by outputting said code outside through a network.

[0008] The code generation approach according to claim 4 is the code generation approach concerning claim 1, and it is characterized by said 1st code part containing the user-identification child who identifies a user.

[0009] The code generation approach according to claim 5 is the code generation approach concerning claim 4, the code generation approach given in a claim is the code generation approach concerning a claim, and said user-identification child is characterized by including a user's subscriber phone number.

[0010] The code generation approach according to claim 6 is the code generation approach concerning claim

1, and said 1st code part is characterized by being the information identification code which specifies the information on said processing object.

[0011] The code generation approach according to claim 7 is the code generation approach concerning claim 6, and said information identification code is characterized by including the information provider identifier the information provider was beforehand decided to be.

[0012] The code generation approach according to claim 8 is the code generation approach concerning claim 1, and said 1st code part is further characterized by consisting of a part for the main code section, and a sub-code part.

[0013] The code generation approach according to claim 9 is the code generation approach concerning claim 8, and said sub-code part is characterized by including the predetermined notation showing the classification of said processing.

[0014] The code generation approach according to claim 10 is the code generation approach concerning claim 9, and the predetermined notation showing the classification of said processing is characterized by being a notation showing e-mail.

[0015] The code generation approach according to claim 11 is the code generation approach concerning claim 9, and is characterized by the predetermined notation showing the classification of said processing being a notation showing I/O of the data by the user.

[0016] The code generation approach according to claim 12 is the code generation approach concerning claim 9, and the predetermined notation showing the classification of said processing is characterized by being a notation showing service using a frame.

[0017] It is the code generation approach concerning claim 12, the service using said frame is choosing the frame which registered one or more of other codes, and the code generation approach according to claim 13 is characterized by being performing processing corresponding to one or more of other codes registered into the selected frame concerned.

[0018] The code generation approach according to claim 14 is the code generation approach concerning claim 13, and is characterized by the ability to perform registration of one or more codes, modification, and deletion to said frame by the user with service using said frame.

[0019] The code generation approach according to claim 15 is the code generation approach concerning claim 1, and said code is characterized by said processing calling the processing corresponding to a code besides the above, when linked from other codes.

[0020] The code generation approach according to claim 16 is the code generation approach concerning claim 1, and said 2nd code part is characterized by including the flag which distinguishes whether the information which identifies a user into said 1st code part is included, or the information which identifies an information provider is included.

[0021] The code generation approach according to claim 17 is the code generation approach concerning claim 1, and said 2nd code part is characterized by including version information.

[0022] The code generation approach according to claim 18 is the code generation approach concerning claim 1, and said 2nd code part is characterized by including country identification information.

[0023] A terminal unit according to claim 19 is characterized by including an input means according to claim 1 to 18.

[0024] The art of a code according to claim 20 is an art showing predetermined processing of a code, and is characterized by inputting the 1st code part by the user, adding the 2nd code part to said 1st code part, dealing with united said 1st code part and 2nd code part as a code, and performing processing corresponding to this code.

[0025] Numbering equipment according to claim 21 is numbering equipment which generates the code which identifies information, and possesses a means to give a part for the main code section which identifies an information input user, and a means to add the sub-code part relevant to said information which should be registered to said main code part, to the information which should be registered.

[0026] Numbering equipment according to claim 22 is numbering equipment concerning claim 21, and is characterized by having further a registration means to register with the code containing a means to input said information which should be registered, and said main code part which was united in said information and a \*\* sub-code part.

[0027] Numbering equipment according to claim 23 is numbering equipment concerning claim 21, and it is characterized by said information which should be registered being advertising information.

[0028] Numbering equipment according to claim 24 is numbering equipment concerning claim 21, and it is characterized by said information which should be registered being the information that it does not

advertise.

[0029] Numbering equipment according to claim 25 is numbering equipment concerning claim 21, and it is characterized by said information which should be registered being a user's dispatch information.

[0030] Numbering equipment according to claim 26 is numbering equipment concerning claim 21, and said information which should be registered is characterized by being mail addressed to a user.

[0031] Numbering equipment according to claim 27 is numbering equipment concerning claim 21, and said information which should be registered is characterized by being frame information.

[0032] Numbering equipment according to claim 28 is numbering equipment concerning claim 27, and if said frame can register one or more of other codes and printing of this frame is specified, it will be characterized by the ability to print the information corresponding to said one or more of other codes.

[0033] Numbering equipment according to claim 29 is numbering equipment concerning claim 21, and is characterized by having further an assignment means to specify said code.

[0034] Numbering equipment according to claim 30 is numbering equipment concerning claim 29, and if a part for the main code section of the code which should be linked is specified with said assignment means, it will be characterized by said addition means adding the sub-code part which is not used among the sub-code parts corresponding to said main code part to said main code part.

[0035] Numbering equipment according to claim 31 is numbering equipment concerning claim 29, and the user to whom said main code part is assigned specifies the sub-code part corresponding to said main code, and it is characterized by being usable in the code concerned.

[0036] Numbering equipment according to claim 32 is numbering equipment concerning claim 29, and is characterized by deleting the code to which it pointed so that it might have a deletion means to direct to delete said code further and might delete with a deletion means with the information corresponding to this code.

[0037] Numbering equipment according to claim 33 is numbering equipment concerning claim 21, and it is characterized by said main code part containing the identification code showing a registration place.

[0038] Numbering equipment according to claim 34 is numbering equipment concerning claim 21, and it is characterized by said main code part containing a user's identification code.

[0039] The numbering approach according to claim 35 is the code numbering approach in the storage which matches and memorizes information and a code, and within limits permitted according to the magnitude of said storage It is characterized by numbering the 1st code for specifying the information memorized to the storage, and numbering the 3rd code containing the 2nd code beforehand decided according to the magnitude, and said 1st code which numbered to said storage.

[0040] The numbering approach according to claim 36 is the numbering approach concerning claim 35, and said magnitude is characterized by corresponding to the capacity of storage of said storage.

[0041] The numbering approach according to claim 37 is the numbering approach concerning claim 35 or 36, and said 2nd code is characterized by including the information which shows the magnitude of said storage.

[0042] The numbering approach according to claim 38 is the numbering approach concerning claim 35 thru/or either of 37, and it is characterized by said 2nd code including the information which specifies said storage.

[0043] The art of a code according to claim 39 is characterized by identifying the bit which specifies the store in said code, and the bit which specifies the information which the store concerned has by the magnitude distinction bit of the inputted code.

[0044]

[Embodiment of the Invention] Hereafter, the suitable operation gestalt of this invention is explained with reference to an attached drawing.

[0045] The service system (henceforth P service system) explained with a <structure-of-a-system> book operation gestalt has the service server (henceforth P service server) of the dedication connected with two or more service terminals (henceforth P service terminal) installed in a store, a station, etc. at this. And by inputting the code (henceforth a P code) of a predetermined gestalt from P service terminal, the information which corresponds from the P service server concerned is acquired, and the print of required information is obtained. In addition, assignment of the P code to P service terminal may be performed by the unspecified user.

[0046] Drawing 1 is drawing explaining the configuration of the outline of P service system by this operation gestalt. In drawing 1, 100 is P service terminal and 200 is P service server. P service terminal 100 performs the communication link with P service server, acquires the information corresponding to the P

code inputted by the user, and prints this. Or the image information inputted in P service terminal 100 can be uploaded to P service server.

[0047] In addition, in a store, a street, a public facility, etc., the public can use this P service terminal 100 as the terminal installed available. The so-called personal computer which the terminal which only a specific man uses for P service terminal 100 in this case, for example, an individual, uses at a house is semantics which is not included.

[0048] It is P service server, and 200 numbers a P code to the offered information, it registers them into a P-code database, and manages them. And the information which corresponds according to the P code inputted from P service terminal 100 is acquired, print data are generated, and it outputs to P service terminal 100.

[0049] 300 is a server for information providers (IP server is called hereafter), for example, is a common Internet provider. The IP server 300 transmits the information (contents) corresponding to the P code given to the information requirements concerned to P service server 200 according to the information requirements from P service server 200. Moreover, P service server 200 can set up two or more usable P codes to the IP server 300, and the IP server 300 can publish a P code uniquely in the range of this usable P code to the information offered from the user terminal so that it may mention later.

[0050] Here, drawing 1 may be a system by which P service server 200 and the IP server 300 function independently, P service server 200 includes the IP server 300 a communication network although it is the system for which informational transmission and reception are possible, and P service server realizes the function of IP server.

[0051] When the P code of the information managed in the IP server 300 side is inputted from P service terminal 100, P service server 200 will deduce IP server which corresponds from the P code, will transmit a P code to the IP server, and will require information.

[0052] Moreover, 400 is a personal digital assistant, for example, a cellular phone. The IP server 300 carries the P code notified from P service server 200 at the time of informational registration to the media 610, such as a newspaper and a journal, or describes a P code in the e-mail information transmitted to a user's personal digital assistant 400 using the cellular-phone mail service 600, and tells P service terminal user (only henceforth a user) about a P code. A user can get the print of the information corresponding to this by inputting the P code attached to interested information from P service terminal 100. In addition, the personal digital assistant 400 of this operation gestalt can input the P code which extracts the P code described in e-mail information, holds to the internal memory, and was held by infrared ray communication etc. to P service terminal 100.

[0053] Moreover, service of mail service etc. can be received by performing individual registration to P service server 200. This registration can be performed through Web from the terminal (user terminal 700) which a user owns. Or a user writes down a predetermined matter in a registration form, this content of entry is followed, and the employment person of P service server may be made to perform registration processing.

[0054] In this operation gestalt, the IP server 300 provides and there are two kinds of information which P service server 200 registers and manages. One is information (this is hereafter called IP information) with which a user is provided by onerous or onerous based on the P-code assignment by the user from P service terminal 100 grade, and another is information (this is hereafter called advertising information) added to the information (IP information etc.) which was automatically chosen by P service server and was acquired according to a user's P-code input.

[0055] As an example of service realized in the above P service systems, this operation gestalt mainly explains the following services. (1) User registration : give a personal P code according to the registration application to P service server from a user terminal 700. (2) IP information registration : according to the registration application of IP information on the IP server 300, register IP information into P service server 200, and give the P code for IP. (3) Advertising information registration : register advertising information into P service server 200 according to the registration application of advertising information. (4) Data utility :P The printed output of the information on desired is obtained by inputting the P code (P code for IP) of the information on desired from the service terminal 100. (5) Mail service :P Mail of the addressing to a user concerned is printed by inputting a user's P code (personal P code) from the service terminal 100. (6) Personal data utility :P By inputting a user's P code from the service terminal 100, setting out and the registered informational printed output are beforehand obtained to the user. (7) Distribution service :P The information on desired is uploaded from the service terminal 100 to P service server 200, and a printed output is performed from P service terminal 100 if needed.

[0056] In addition, about each service mentioned above, a detail is mentioned later. Of course, the service

and the function which are realized by P service system in this operation gestalt are not restricted above. [0057] <Configuration of P service terminal> drawing 2 is drawing showing a general view of P service terminal 200 by this operation gestalt. In drawing 2, 101 is a printer, for example, forms a color visible image by the laser beam method. 102 is a scanner, reads a manuscript image optically and changes it into digital image data. In addition, the recording method of a printer 101 may not be restricted to a laser beam method, and what kind of things, such as a hot printing method and an ink jet recording method, are sufficient as it. Moreover, it is also possible to operate the service terminal 100 as a copying machine with a printer 101 and a scanner 102. 103 is a main unit and performs communications control with P service server 200, communications control with a personal digital assistant 400, various actuation inputs, and the display according to various actuation.

[0058] In a main unit 103, 104 is a touch panel and presents actuation input by the user, and various information to a user. 105 is an infrared receive section and it is used for receiving a P code by infrared ray communication from the personal digital assistant equipped with infrared communication facility. 106 is a connector for personal digital assistants, and reading appearance of the data (P code) stored in the memory of the personal digital assistant concerned is carried out with P service terminal 100 by connecting a personal digital assistant here. 107 is a bar code reader, and it is used for reading this and acquiring a P code when a P code is offered by the bar code.

[0059] 108 is a disk unit and performs the read and the store of data between media, such as a floppy disk and MO. Moreover, 110 is a settlement-of-accounts unit and performs the settlement of accounts to the various services mentioned above. As the approach of settlement of accounts, various approaches, such as settlement of accounts by cash and settlement of accounts by the credit card, can be considered.

[0060] Drawing 3 is a block diagram showing the control configuration of P service terminal 100. In this drawing, the same reference number is given to the same configuration as drawing 2. 124 is the communications department and makes communication link connection with P service server 200 through the telephone line etc.

[0061] 120 is a control section and controls each configuration explained by drawing 2. In a control section 120, 121 is CPU and realizes various control in P service terminal 100 according to the control program stored in memory 122. User I/F control 122a controls each following program execution among the control programs stored in memory 122 according to the operator guidance of the user through a touch panel 104. Data utility processing 122b, mail service processing 122c, 122d of personal data utility processings, and distribution service processing 122e realize various services called data utility [ which was mentioned above, respectively ], mail service, personal data utility, and distribution service. 122f of settlement-of-accounts processings realizes settlement-of-accounts processing which used the settlement-of-accounts unit 110.

[0062] <Configuration of personal digital assistant> drawing 4 is drawing showing a general view of the personal digital assistant 400 in which P-code transmission to P service terminal is possible. Like a common portable telephone, the personal digital assistant 400 is equipped with the liquid crystal display 410 or the dial carbon button, and functions as a portable telephone. Moreover, e-mail is received and a personal digital assistant 400 can display the content on a liquid crystal display 410. In this case, the cursor in a liquid crystal display can be moved with the left cursor 401 and the right cursor 402, it can cooperate with actuation of the range assignment key 404, and the range of the request under e-mail can be made into a selection condition. And where a certain range under e-mail is chosen, when the P code key 403 is pushed, the data of the selected range will be stored in internal memory as a P code. Or a P code is searched and extracted automatically and you may make it store in memory by pushing the P code key 403 in an e-mail display condition. About the detail of these actuation, it mentions later with Fig. 108 - 111.

[0063] 405 is the infrared communications department and outputs the P code stored in internal memory with infrared radiation. It will be received by the infrared communications department 105 of P service terminal 100, and the infrared radiation outputted by the infrared communications department 405 will be recognized as a P code. Moreover, the communication link connector is prepared in the base of a personal digital assistant 400, and telephone number information can be exchanged between personal computers.

[0064] Drawing 5 is a block diagram explaining the control configuration of a personal digital assistant 400. In drawing 5, 423 is a telephone function part and is equipped with functions required for the call processing as a cellular phone, such as a loudspeaker, a microphone, and a radiocommunication function. 424 is a communication link connector, generally it is used for connection with a personal computer, and upload and download of the telephone number etc. are performed. By connecting with the connector 106 for personal digital assistants of P service terminal 100 with this operation gestalt, it is possible to transmit a P

code to P service terminal 100. 425 is the various manual operation button groups (the carbon button group for a dial is included) explained by drawing 4.

[0065] 420 is a control section and realizes control of each configuration mentioned above by drawing 4, and various control in a personal digital assistant 400 according to the control program stored in memory 422. Personal digital assistant control 422a is a program unit for realizing the function as a usual cellular phone among the programs stored in memory 422. P-code extract processing 422b is a program unit for the processing which extracts a P code out of the received mail, and is stored in P-code storage area 422c. In addition, there are an approach of extracting the data of the range specified by the manual as a P code as the extract approach of a P code as mentioned above, and a method of identifying and extracting a P code automatically out of mail data. Moreover, 422d of P-code transmitting processings is a program unit for transmitting the P code stored in P-code storage area 422c through the infrared communications department 405 or the communication link connector 424 to P service terminal.

[0066] <The configuration of P service server>, next P service server 200 are explained. Drawing 6 is the block diagram showing the outline configuration of P service server 200. 201 is a control section and is equipped with CPU202 and memory 203. CPU202 realizes various services in P service server 200 according to the control program stored in memory 203. The control program performed by CPU202 is stored in memory 203. Information registration processing 203a is a program module for registering for example, IP information, advertising information, User Information (individual humanity news), distribution data, etc. Moreover, P-code numbering processing 203b is a program module for assigning the P code for specifying each registered information. According to the P code transmitted from P service terminal 100, IP information, advertising information, mail data, and distribution data are acquired, or service processing 203c registers distribution data. Advertising retrieval processing retrieves 203d of advertising information which should be added in the printed output in P service terminal. Thus, by adding advertising information, the tariff to which a user pays the charge of an information output by the advertising rate at the time of phase murder and an information output (at the time of a print) is reduced. 203e is data output processing, it adds the advertising information acquired by advertising retrieval processing to the information acquired based on the P code inputted from P service terminal 100, carries out the layout of a up to [ a print form ] to it, and generates and outputs print data to it.

[0067] 204 is the communications department, and through a circuit, it connects with P service terminal, or it connects with each IP server 300 through Web.

[0068] 205 is a P-code database and stores table group 205a concerning a P code, and stereo 205b of contents. IP information registration table (drawing 7), an advertising information table (drawing 8), the User Information table (drawing 9), P code table for mail services (drawing 10), P code table for distribution service (drawing 11), P code table for personal data utility (drawing 12), an individual humanity news table (drawing 13), an owner information table (drawing 14), and a terminal information table (drawing 15) are contained in table group 205a.

[0069] Drawing 7 is drawing showing the example of a data configuration of IP information registration table. IP information registration table 220 is generated and recorded at the time of registration of IP information. The discernment section, a basic property, and stereo information are registered into IP information registration table 220 to the assigned P code. The discernment section stores the information for expressing the structure (it being the P code of the link place, when linked [ whether there is any sub-code (Subcode) and ] to other P codes) of the P code concerned. In the case of a P code with a sub-code, two or more kinds of P codes with a sub-code can be registered into an applicable P code, and as shown in drawing 11, each sub-code table has the same discernment section as IP information registration table, a basic property, and stereo information. A sub-code table creates only the number of P codes with which every P code to which the sub-code was added, and the sub-code were added, and is stored. A basic property stores the information showing the printing conditions of the owner of the IP information concerned, or a report. Moreover, these are used for a basic property by 203d of advertising retrieval processings including a "keyword list" and a "keyword weight list" (it mentions later for details). Stereo file information specifies the stereo data of the IP information concerned, and includes the pass and file name of a stereo file.

[0070] In addition, in P service system of this operation gestalt, it is possible in the IP server 300 to publish a P code within permitted limits. Therefore, the case where P service server 200 performs registration of IP information, and the server which the IP server 300 may carry out and registered IP information own the above-mentioned IP information registration table with the contents. That is, that to which the stereo of IP information and IP information registration table exist in P service server 200, and the thing which exists in the IP server 300 exist.

[0071] Drawing 8 is drawing showing the example of a data configuration of an advertising information table. The advertising property of the advertising information concerned, a link, and stereo file information are stored to the P code which is generated and recorded and was assigned when, as for an advertising information table, an advertiser registered advertising information. The printing conditions of the information which shows the owner of the advertising information concerned, and the advertising information concerned are registered into an advertising property. In addition, the target keyword list and the weight list of target keywords which are used in 203d of advertising retrieval processings are stored in "the link information to IP information" of an advertising property.

[0072] The P code of the advertising information which should be linked is stored in a link. Moreover, the pathname and file name for specifying the file of the advertising information concerned are registered into stereo file information. In addition, although the stereo of advertising information may be in any of P service server and IP service server, this advertising information table is surely stored in the P-code database 205 of P service server 200. In addition, when the stereo of advertising information is in IP service server, what the information for specifying IP service server is included for in the stereo file information of an advertising information table (which mentions this point later although IP server is specified by the P code with this operation gestalt) cannot be overemphasized.

[0073] Drawing 9 is drawing showing the example of a data configuration of the User Information table. The User Information table is generated and recorded when a user performs member registration of P service system, and it includes a user profile, individual humanity news, the information for mail services, the information for distribution service, and the information for personal data utility. The information showing a user's address, the object of interest, etc. is registered into a user profile. The pointer to the individual humanity news table which registers the secret matter of individuals, such as an address of the user concerned as shown in drawing 13, a name, the telephone number, and a credit card number, is stored in the "individual humanity news table" in a user profile. In e-mail print service, distribution service, and personal data utility, required information is registered into the information for mail services, the information for distribution service, and the information for personal data utility, respectively.

[0074] Drawing 10 is drawing showing the example of a data configuration of P code table for mail services. As shown in this drawing, the stereo file information which points out the "e-mail property" showing the subject (title) and transmitting person of e-mail and the file of mail data is registered to the P code for mail services. In addition, in drawing 10, a P code consists of a parent code section "the telephone number" and an adjunct (suffix (it is written also as Surfix)) "# number", and a sub-code is the part of the "number" of addition circles here.

[0075] Drawing 11 is drawing showing the example of a data configuration of P code table for distribution service. As shown in this drawing, the "delivery information property" showing a title, the expiration date of the delivery information concerned, and the personal identification number given to the delivery information concerned and the stereo file information which points out the delivery information file concerned are registered to the P code for distribution service. In addition, in drawing 11, a P code consists of a parent code section "the telephone number" and an adjunct (suffix) "- number", and a sub-code is the part of the "number" of addition circles here.

[0076] Drawing 12 is drawing showing the example of a data configuration of P code table for personal data utility. As shown in this drawing, "the property for personal information" showing a title or the last printing day and the "registration P-code information" showing the list of P codes registered are registered to the P code for personal data utility. This P-code list is the P-code group beforehand set up and registered by the user. In drawing 12, a P code consists of a parent code section "the telephone number" and an adjunct (suffix) "## number", and a sub-code is the part of the "number" of addition circles here.

[0077] Drawing 13 is drawing showing the example of a data configuration of an individual humanity news table. An individual humanity news table accompanies the User Information table, as mentioned above by drawing 9.

[0078] Drawing 14 is drawing showing the example of a data configuration of an owner information table. This table is a table linked to the "owner ID" in IP information registration table shown in drawing 7, and the advertising information table shown in drawing 8, and as shown in drawing 14, the information about owner (an information provider, advertiser) is registered.

[0079] Drawing 15 is drawing showing the example of a data configuration of a terminal information table. A terminal information table is held about each of P service terminal.

[0080] <Configuration of IP server> drawing 16 is the block diagram showing the typical configuration of the IP server 300. In drawing 16, 301 is a control section, is equipped with CPU302 and memory 303, and

performs various processings in the IP server 300. 304 is a display and performs various displays under control of a control section 301. 305 is the input section equipped with pointing devices, such as a keyboard or a mouse. 306 is the data storage section and the IP server 300 holds "the stereo of IP information" registered into P service system, and "IP information registration table" about the IP information concerned (IP information registration table is the same as that of what was shown by drawing 7). 307 is the communications department and is connected with P service server 200 through a circuit etc.

[0081] The IP server 300 acquires a P-code value more nearly available than P service server 200, and publishes a P code at the time of registration of IP information on a user terminal. At this time, the stereo of IP information and IP information registration table are held in the data storage section 306. Moreover, when there is a demand of information from P service server 200, according to the specified P code, this is transmitted for the stereo (contents) of IP information to drawing and P service server 200.

[0082] The P code used for informational specification etc. in a <P code>, next this operation gestalt is explained.

[0083] Drawing 17 is drawing explaining the data configuration of the P code used with P service system by this operation gestalt. A P code can be classified into three parts, the "classification section", the "number section", and an "adjunct", as shown in drawing 17.

[0084] The classification section is a 16-bit code in which the inputted P-code number contains the P-code classification bit which shows the P code for IP (information P-Code), or a personal P code (individual user P-Code), version information, and a country code. The content of this classification section will be automatically added with the terminal concerned, if a P-code number is inputted into P service terminal 100.

[0085] First, it judges whether the inputted P code is a personal P code or it is a P code for IP, and a P-code classification bit is set. The telephone number is used for the number section of a personal P code with this operation gestalt. And when the number inputted into P service terminal 100 is a 11 or less-digit continuous number, the telephone number was inputted, namely, judges it as that into which the personal P code was inputted, and sets "1" to a P-code classification bit. On the other hand, when the digit string divided with the hyphen every (every four figures) 4 figures is inputted as a P-code number, it identifies that it is the non-telephone number (namely, P code for IP), and it sets to a P-code classification bit "0." Then, version information is set and the country code showing the country in which the P service terminal concerned was installed is set (when a country is specified from P service terminal, the number of the appointed country is set).

[0086] A user is the number (henceforth a P-code number) which carries out a direct input, and the number section is a number which an information provider carries to a newspaper, a journal, a homepage, etc. In addition, the telephone number is used for an individual P-code number.

[0087] In addition, when an above-mentioned P-code classification bit is 1 (i.e., when it is a personal P code), like a graphic display, 40 bits is assigned to the number section and the numeric value expressed with the telephone number enters here. And the remaining 8 bits will be used as an adjunct.

[0088] On the other hand, when a flag bit is 0 (i.e., when it is a P code for IP), like a graphic display, 39 bits will be assigned to the number section and remaining 9 bits will be used as an adjunct. And 1 bit of high orders expresses P service server discernment bit (1 bit) among the 39-bit number sections, and the continuing triplet expresses a class classification. Since P service server discernment bit is set to 0, only the triplet showing a class classification will be contained in 4 bits of high orders, and, as for sites other than P service server, the single figure head of a P-code number comes to express a class classification (numerical 1-numerical 5). In addition, this class classification is synonymous with the class classification as used in the field of an IP address, and as shown in drawing 17, since very small-scale, five classes of pole large-scale are expressed by the numeric value of 1-5 expressed with this triplet. For example, in the case of a class 1 (very small-scale), 24 bits will be used for the number for site discernment (henceforth an EKUSUTANARU code), and remaining 11 bits (henceforth an internal code) of codes for ID which can be freely used to the site concerned will be constituted. If the class division is carried out according to the magnitude of IP server, the number of the P codes assigned to IP server will become a thing according to the magnitude of the IP server.

[0089] An adjunct shows the identification number in case the contents identified in the above-mentioned classification section + number section have a classification further. For example, if it is an information P code, or it establishes the classification "the result of today", "the result of yesterday", and "result of the day before yesterday" --, to "the result of professional baseball", establishing the classification of a "venue" and a "ball race" to "horse race anticipation" etc. will be mentioned. Or it will be used for a mail box number and

the number for personal information if it is a personal P code.

[0090] Especially, with this operation gestalt, connection of two or more kinds of "adjuncts" is attained as a suffix about the one number section. Moreover, when grouping is specified to the P code, it can link to other IP information for every suffix. And when the code of the number section concerned is inputted as a P code, information with the need of updating and adding frequently, such as "yesterday's professional baseball game result", can be coped with by a suffix value choosing the greatest thing and making it show as IP information. In this case, the P code and IP information on a game result to which the increment of the suffix was carried out are linked by matching with the P code which carried out the increment of the suffix, and carrying out grouping of yesterday's game result at the next day when a new professional baseball game result occurred. Therefore, when a P-code number is specified in order to obtain "yesterday's professional baseball game result", the suffix added to the P-code number concerned will take out the greatest thing, and will show a user.

[0091] In addition, although a user is able to input this directly when an adjunct exists in a P code, a P code with an adjunct can be inputted by menu selection, without performing a direct number input. That is, about the P code which has an adjunct, when a user inputs only a P-code number, the value and properties (title etc.) of the P code (number section + adjunct) which corresponds from P service server are transmitted to P service terminal 100, and P service terminal 100 indicates the select-list display by the menu at a touch panel 104 using this information. When a user chooses desired contents from this select list, a corresponding P code (number section + adjunct) will be transmitted to P service server, and selected contents will be sent to P service terminal. In addition, as the number section, as an adjunct, the code which put "the predetermined notation" and "the addition number (Subcode)" in order is used for the personal P code, and it explains the example using "#", "-", and "##" as "a predetermined notation" with this operation gestalt using the numeric value which the user inputted as the "telephone number." In this case, if a personal P code is inputted, "the predetermined notation" beforehand registered from that P code shall be detected, and service (if it is "#", it is mail service and "-" and it is distribution service and "##" personal data utility) beforehand defined according to the class of that detected "predetermined notation" shall be performed.

[0092] The content of a configuration of the above P code is collectively shown in drawing 18.

[0093] In addition, if all the whole (the "classification section", the "number section", "adjunct") P codes are registered into memory and it makes it input into P service terminal in memorizing the P code in the memory of a personal digital assistant, it becomes possible to omit actuation of menu selection etc., and a user's burden can be mitigated.

[0094] With reference to <the outline of a system of operation> next drawing 19, and drawing 20, the outline of processing by P service server of this operation gestalt is explained.

[0095] At step S101 - step S109, the processing which should be performed is chosen based on ID information and the command which are inputted from P service terminal 100 or the IP server 300, and user-terminal 700 grade, and a P code. For example, when the inputted data are a user registration demand, it progresses to step S111 from step S102, a personal P code is numbered by information registration processing 203a and P-code numbering processing 203b, and user registration processing is performed. By this user registration processing, the User Information table of drawing 9 and the individual humanity news table of drawing 13 will be generated and registered. On the other hand, when IP information registration demand is inputted, it progresses to step S112 from step S103, and out of the P code assigned to IP server as which registration of the IP information concerned was required, the P code for IP is numbered and IP information registration processing is performed at step S113. In this IP information registration processing, IP information registration table shown by drawing 7 is generated and registered. Moreover, when an advertising information registration demand is inputted, it progresses to step S114 from step S104, a P code is numbered, and advertising information registration processing is performed at step S115. In this advertising information registration processing, the advertising information table like drawing 8 is generated, and it registers with P service server 200.

[0096] Moreover, when a P code is inputted from P service terminal 100, it is judged whether it is processing [ which / of step S105 - step S109 ]. Preview data are generated, while judging that it is the demand of data utility, progressing to step S116 from step S105 and acquiring the stereo and property of IP information from the P code concerned, when a P code is a P code for IP (a P-code classification bit is 0). Moreover, when a P code is a P code registered into the information for mail services on the User Information table by the personal P code (a P-code classification bit is 1), it judges that mail service was required and progresses to step S117 from step S106. At step S117, the stereo and property of mail data are acquired from P code table for e-mail based on a P code.

[0097] Moreover, when the inputted P code is a P code registered into the information for personal data utility on the User Information table (drawing 9) by the personal P code, it judges that personal data utility was required and progresses to step S118 from step S107. At step S118, with reference to P code table for personal data utility (drawing 12), the list of P codes for IP is acquired, and IP information and its property are acquired about all the P codes registered into this list.

[0098] Moreover, when the inputted P code is a P code registered into the information for distribution service on the User Information table by the personal P code, it judges that it is the ejection demand of the data in distribution service, and progresses to step S119 from step S108. At step S119, the password further registered to the data concerned is required, it judges whether the just password was received with reference to P code table for distribution service, and the stereo and property of the distribution data corresponding to the P code concerned are acquired.

[0099] Furthermore, when it is the registration demand of the distribution data in distribution service, it progresses to step S123 from step S109, registration processing of distribution data including issuance processing of a P code, the registration processing of a password to data, etc. is performed, and advice of data registration and the given P code are notified. The P code published here is a P code of the format that the addition code (suffix) was added to the personal P code (telephone number).

[0100] Now, acquisition of information required of each step of steps S116-S119 determines the layout for printing the acquired information on a form in step S120. And in step S121, the advertising information which should be carried in the margin on a form etc. is acquired (about retrieval of advertising information, it mentions later). And in step S122, the preview data of the image of the property acquired in the above-mentioned steps S116-S119 and each page obtained by steps S120 and S121 are transmitted to P service terminal. And if directions of the purport which prints from P service terminal 100 are received, the data for printing will be generated and it will transmit to P service terminal 100. At P service terminal 100, it prints by the printer 101 based on these print data.

[0101] In a <user registration> P service system, when a user receives mail service and personal data utility, it is necessary to perform user registration to P service server 200 in advance.

[0102] In user registration, the matter of the arbitration for having to register the matter for specifying a user at least, and receiving each service of P service system suitably can also be registered. Furthermore, modification of the already registered matter is also possible.

[0103] It explains taking the case of the case where the procedure of the starting user registration is hereafter performed through Web from the user terminal 700 which a user owns.

[0104] If a user accesses P service server's 200 user registration from a user terminal 700, P service server 200 will perform user registration processing of step S111.

[0105] Drawing 21 is the flow chart of user registration processing.

[0106] P service server 200 displays many screens for user registration on the display of a user terminal 700, and makes a user input a registration matter serially by the so-called GUI in this user registration processing.

[0107] In step S1000, P service server 200 judges which [ of modification of the user registration already performed by the user in new user registration ] was chosen, and, in the case of the former, it progresses to step S1001, and, in the case of the latter, progresses to step S1005.

[0108] New registration processing is performed at step S1001. In this new registration processing, the dialog box first shown in drawing 22 is displayed on the display of a user terminal 700.

[0109] This dialog box The "name address" carbon button 1000, the "personal identification number" carbon button 1010, the "office" carbon button 1020, the "credit card" carbon button 1030, "service" carbon button 1040, the "individual humanity news" carbon button 1050, the "individual humanity news 2" carbon button 1060, the "needed information" carbon button 1070, It has the "print sheet" carbon button 1080 and "registration of liking information" carbon button 1090, and when a user clicks one of carbon buttons, registration of the matter according to each item is attained.

[0110] In the dialog box shown in drawing 22, a click of the "name address" carbon button 1000 displays the dialog box shown in drawing 23. A user has to input either a name, an address and the telephone number or the number of a cellular phone from a user terminal 700 at least as an indispensable input matter. After input termination, if the "O.K." carbon button is clicked, the inputted content will be saved and the dialog box shown in drawing 22 will be displayed again. A click of the "Cancel" carbon button displays again the dialog box shown in drawing 22, without saving the inputted content. This processing is the same as that of the following.

[0111] In the dialog box shown in drawing 22, a click of the "personal identification number" carbon button

1010 displays the dialog box shown in drawing 24. A user inputs a desired personal identification number into the "personal identification number" column. It is for preventing that a third party uses P service system by others' name. Therefore, a personal identification number is an indispensable input matter in principle. [0112] In addition, since the inputted personal identification number is displayed by the asterisk "\*", it makes a user input a personal identification number into the "personal identification number (for check)" column again that an incorrect input should be prevented.

[0113] In the dialog box shown in drawing 22, a click of the "office" carbon button 1020 displays the dialog box shown in drawing 25 </A>. A user can input the matter about office into arbitration.

[0114] In the dialog box shown in drawing 22, a click of the "credit card" carbon button 1030 displays the dialog box shown in drawing 26. A user specifies a self credit card with this dialog box, when settling the utilization tariff of P service system with a credit card. It is considered that the case without assignment is cash payment.

[0115] In the dialog box shown in drawing 22, a click of "service" carbon button 1040 displays the dialog box shown in drawing 27. A user chooses the service which wishes to use based on the personal P code given by this user registration from the mail service offered with P service system, personal data utility, or distribution service, and checks the check box corresponding to that service. About the service which was not checked, utilization based on the personal P code given by this user registration cannot be performed.

[0116] In the dialog box shown in drawing 22, a click of the "individual humanity news" carbon button 1050 displays the dialog box shown in drawing 28. A user can input individual humanity news general to arbitration here. The information inputted here is used in the advertising retrieval processing mainly explained in full detail a back forge fire.

[0117] In the dialog box shown in drawing 22, a click of the "individual humanity news 2" carbon button 1060 displays the dialog box shown in drawing 29. A user can input concrete individual humanity news into arbitration here. The information inputted here is also used in the advertising retrieval processing mainly explained in full detail a back forge fire.

[0118] In the dialog box shown in drawing 22, a click of the "needed information" carbon button 1070 displays the dialog box shown in drawing 30. Items, such as economy, entertainment, and a sport, enumerate in this dialog box hierarchical, and are displayed on it, and a user can check the check box of his interested item. Moreover, each item can also be promptly searched by "retrieval by keyword."

[0119] The item checked here is used for retrieval of the information with which P service server 200 provides a user at arbitration in each service of P service system. For example, a user is a carrier beam case about mail service, when a superfluous margin part exists in the print, P service server 200 retrieves the free IP information relevant to the checked item concerned etc., and it becomes possible of it to add and output this to a margin part. Moreover, the item checked here can also be used in the case of advertising retrieval processing.

[0120] In the dialog box shown in drawing 22, a click of the "print sheet" carbon button 1080 displays the dialog box shown in drawing 31. A user can specify the output form, when obtaining a printed output from P service terminal 100. For example, if the "conspicuousness precedence" radio button of the dialog box of drawing 31 is checked, the layout of a print will be thought as important and the information acquired by P service system will be printed with a more legible layout. Moreover, when a "pagination precedence" radio button is checked, economization of pagination will be thought as important and economization of a printing charge can be expected. In addition, if a "detail" carbon button is clicked, a desired thing is chosen out of two or more layout patterns registered on P service system, the amount of advertising information, a font size, etc., and this can be specified.

[0121] In the dialog box shown in drawing 22, if "registration of liking information" carbon button 1090 is clicked, IP information which should be made the object of personal data utility can be set up. a group as which a user requests this setting out -- it carries out by enumerating the P codes for IP corresponding to IP information. In addition, plurality is possible for registration of liking information. In addition, since the dialog box which should be displayed at this time is the same as that of registration of the frame of the personal data utility in explanation of the various services mentioned later, a graphic display is omitted.

[0122] Next, when not progressed and inputted into step S1003 if a user clicks the "O.K." carbon button in the dialog box shown in drawing 22, it considers that all inputs ended P service server 200, and it confirms whether all the indispensable input matters progressed and mentioned above were inputted to step S1002 and it is inputted into it, after emitting predetermined warning, it returns to step S1001. In addition, when a user clicks the "Cancel" carbon button, it ends, without doing anything.

[0123] At step S1003, P service server 200 numbers a personal P code. After attaching either the number of

the cellular phone which the user inputted in the dialog box of drawing 23 as the "number section" especially, or the telephone number, the P code concerned is given to a user by sending out the P code to a user terminal 700. In addition, processing of this numbering is explained in full detail with reference to drawing 70 later.

[0124] It stores in the User Information table having shown the information inputted in each above-mentioned processing corresponding to the new personal P code given to the user in this user registration in drawing 9 at step S1004. Then, user registration processing is ended.

[0125] On the other hand, when modification of the already performed user registration is chosen in step S1000, it progresses to step S1005.

[0126] Registration modification \*\*\*\*\* is performed at step S1005. In this registration modification processing, the dialog box first shown in drawing 32 is displayed on the display of a user terminal 700. The dialog box shown in drawing 32 is the same configuration as the dialog box shown in drawing 22, and expresses among drawing by \*\*\*\*\* which gives "" to the figure about each carbon button 1000 of the dialog box of drawing 22 thru/or the carbon button corresponding to 1090.

[0127] A dialog box when the user clicked each carbon button 1000' thru/or 1090', as he showed to drawing 23 thru/or drawing 31 corresponding to the carbon button is displayed. The matter inputted at the time of the past user registration is also doubled and displayed on the dialog box displayed.

[0128] A user can see the displayed content and can change this. For example, a click of "personal identification number" carbon button 1010' of drawing 32 displays the dialog box shown in drawing 33. A user can input a new personal identification number into the "personal identification number" column, and can change a personal identification number into it. Moreover, a new personal identification number is again inputted into the "personal identification number (for check)" column for a check. A click of the "O.K." carbon button saves the content of modification after an input.

[0129] When a user clicks the "O.K." carbon button, in the dialog box shown in drawing 32 and P service server 200 Boil whether the indispensable input matter which all modification ended and which was rich, made, progressed to step S1006, and was mentioned above by modification was eliminated by the mistake etc. by way of precaution, and it checks. When the indispensable input matter was inputted, and it progresses to step S1004 and is eliminated, after emitting predetermined warning, it returns to step S1005.

[0130] At step S1004, the matter to which the User Information table corresponds is updated according to the content from which P service server 200 was changed.

[0131] All user registration processings are completed by the above. In addition, although the sequential selection of the input item was made from the menu of drawing 22 and the need matter was inputted in the above-mentioned new registration processing, the so-called Wizard format of indicating each input screen by sequential automatically, and making a user inputting a need matter may be used. However, the menu which chooses a desired matter as modification of the content of registration like drawing 32 is more desirable.

[0132] In a <IP information registration> P service system, the information provider who offers IP information needs to register the content of IP information etc. to P service server 200 or the IP server 300.

[0133] This registration can be performed by submitting storages, such as CD-ROM which carried out by accessing P service server 200 or the IP server 300 through Web, or recorded the content of IP information etc., to the employment person of P service system etc. from the terminal (henceforth an information provider terminal) with which an information provider does possession etc. and which is not illustrated.

[0134] The case where an information provider registers the procedure of starting IP information registration into P service server 200 through Web hereafter is explained.

[0135] If an information provider accesses IP information registration of P service server 200 from an information provider terminal, P service server 200 will perform processing of step S112 in drawing 19, and will number internally the P code for IP for the information provider. Then, it progresses to step S113 and IP information registration processing is performed.

[0136] Drawing 34 is the flow chart of IP information registration processing.

[0137] P service server 200 displays many screens for IP information registration on the display of an information provider terminal, and makes an information provider input a registration matter serially by the so-called GUI like the user registration processing mentioned above in this IP information registration processing.

[0138] At step S1010, the dialog box shown in drawing 35 is displayed, and it judges whether an information provider is the member of P service system. A member means the thing person who applied to P service system separately as an information provider beforehand, and if it is not the member, IP information

cannot be offered for pay. In addition, a member number and a password are attached by application. [0139] In this dialog box, in the case of a member, an information provider checks the radio button of "yes" and inputs a member number further. In the case of a non-member, the radio button of "no" is checked. \*\* [ a click of a "degree" / progress / to step S1011 / it / in the case of a non-member ] In the case of a member, the dialog box further shown in drawing 36 is displayed, and the input of a password is required. If the password which the information provider entered is normal, it will progress to step S1012.

[0140] In addition, if the information inputted with each dialog box when the "degree" was clicked is saved, it progresses to the next processing and it clicks "it returns", it will return to the first dialog box, without saving the inputted information, and saving return and the inputted information further, to processing of one this side, if "registration cancellation" is clicked. As for this, the same is said of each following processing.

[0141] The dialog box shown in drawing 37 is displayed, and information, such as an address for specifying the information provider concerned as a non-member's information provider, a name, and the telephone number, is made to input at step S1011. It is for eliminating the flood of unsuitable IP information. After an input, if a "degree" is clicked, it will progress to step S1014. In addition, after an input, in order to recommend registration of a member, a dialog box as shown in drawing 38 can be displayed, and member registration procedure can be performed on Web.

[0142] At step S1012, the dialog box shown in drawing 39 is displayed, and the information provider who is the member checks whether IP information registered in this IP information registration is made into the charge. When considering as the charge, an information provider checks the check box of "wanting to make it onerous at the time of printing", and inputs desired accounting (step S1013). A check box is not checked when considering as no charge. If a "degree" is clicked in the case of which, it will progress to step S1014.

[0143] At step S1014, the dialog box shown in drawing 40 is displayed, and IP information to register is specified. An information provider inputs the file name of the stereo (contents) of IP information saved to the information provider terminal. In this case, a multiple-files name can also be specified. In addition, IP information to register may be whichever of text and an image.

[0144] Moreover, by clicking "file designation" carbon button, the dialog box showing the list of the files of IP information saved to the information provider terminal as shown in drawing 41 can also be displayed, and an information provider can choose the file of IP information easily in this case. Moreover, what is necessary is just to click "deletion" carbon button, after specifying the file in the dialog box shown in drawing 40 when canceling the once chosen file. In the dialog box shown in drawing 40, if a "degree" is chosen, it will progress to step S1015.

[0145] The content of the file specified at the above-mentioned step S1014 is indicated by preview (drawing 42), and an information provider is made to check this at step S1015. After a check, a dialog box when an information provider clicks the carbon button "transmitted to a server", as he shows to drawing 43 is displayed, and the file as which it was specified is transmitted to P service server 200. It progresses to step S1016 after a transfer.

[0146] The property of transmitted IP information is set up at step S1016. In setting out of a property, the dialog box shown in drawing 44 is displayed first, and the printing opening day of the IP information concerned and an expiration date (printing period) can be set up. Moreover, in this setting out, the expiration date and the expiration date of IP information of the P code for IP can also be set up independently. Moreover, the expiration date of a P code may be made to give by adding a predetermined period to the expiration date of IP information so that it may mention later by drawing 73 automatically. If a "degree" is chosen in the dialog box of drawing 44, the dialog box shown in drawing 45 drawing will be displayed, and another property will be set up.

[0147] Here, when IP information is outputted from P service terminal 100 after registration, it sets up whether it permits changing the size.

[0148] This is because the situation to reduce size on the relation of a layout and by P service terminal 100 side may arise when outputting the convenience and two or more IP information of a form on P service terminal 100 to the form of 1. in this case, that size can be freely changed by P service terminal 100 side, then the content of IP information -- by how, since a print may become indistinct, an information provider shall set up the tolerance of a character size and reduction percentage If a "degree" is chosen in the dialog box of drawing 45 drawing, the dialog box shown in drawing 46 will be displayed, and still more nearly another property will be set up.

[0149] Here, when IP information is outputted from P service terminal 100 after registration, it sets up whether in an information provider, it permits that advertising information is added automatically. An information provider can choose this by checking the radio button of "a permission is granted", "a

permission being granted if it is a rear face" or "not granting a permission at all". [ either ] Advertising information will be added within the limits of this selection. If a "degree" is chosen in the dialog box of drawing 46 , the dialog box shown in drawing 47 will be displayed, and still more nearly another property will be set up.

[0150] Here, a password can be set up so that only a specific user can use IP information after registration. When setting up a password, the check box of "setting up a password" is checked and a desired password is entered into the "password" column. A click of a "degree" requires reinput after an input that the dialog box shown in drawing 48 is displayed, and should prevent the incorrect input of the entered password. A click of "registration" carbon button saves a password. When not setting up a password, a "degree" is clicked without doing anything in the dialog box shown in drawing 47 . In any case, after that, the dialog box shown in drawing 49 is displayed, and still more nearly another property is set up.

[0151] Here, in order to use by advertising retrieval processing, the genre of IP information which should be registered, a keyword, etc. are inputted. The item to input consists of a "genre", a "subgenre", and a "keyword" here. If the "genre" and the "subgenre" are a component stereo box, for example, click the arrow head at the right end of the "genre" column, as shown in the dialog box of drawing 50 , the list of the items of the "genre" column is displayed and an information provider can choose the category which suited most IP information which should be registered out of this. Moreover, the keyword about the concrete content of registered IP information can be chosen as arbitration, and can be inputted into the "keyword" column. Furthermore, the inputted keyword can be decided with an "additional" carbon button, and the settled keyword can be canceled with "deletion" carbon button.

[0152] In addition, if the check box of the column "which performs the link where an advertisement is negative" is checked, the content of IP information registered at the time of advertising retrieval processing and selection of the advertising information which has an unsuitable relation can be eliminated.

[0153] Moreover, it can use together with this instead of being setting out of the property in the dialog box shown in drawing 49 , and the property in the dialog box shown in drawing 51 can also be set up.

[0154] The dialog box shown in drawing 51 inputs the title and summary of IP information which were registered. When the IP information concerned is required in data utility besides using by advertising retrieval processing, by once indicating that summary to a user rather than providing a user with the stereo of IP information promptly, this summary can expand the width of face of IP information selection of a user, or can also present relief of an accounting burden with it.

[0155] Above, it ends and setting out of the property in step S1016 progresses to step S1017.

[0156] At step S1017, the dialog box shown in drawing 52 is displayed, and it chooses whether registered IP information is made into group setting. group setting -- a group -- it says associating IP information mutually, and as a result of the thing which is the information on the same object and by which the content is updated with time, for example, professional baseball, it uses in order to deal with stock information etc.

[0157] When you do not wish group setting, an information provider clicks "cancellation" carbon button and progresses to step S1019 in this case.

[0158] When you wish group setting, it chooses with a radio button whether IP information registered in the dialog box of drawing 52 A is added to the existing group, or it considers as a new group.

[0159] When adding to the existing group, the P code further for IP of the link place is inputted. In addition, the P code currently displayed on the "P-Code to register" column is a P code given to IP information registered this time.

[0160] When a new group is chosen and the "O.K." carbon button is clicked, each data which the dialog box of drawing 52 B will be displayed, will input the title, a content, and an updating schedule, and was inputted will be eventually stored in the Frame information storing field of IP information registration table ( drawing 7 ).

[0161] If the "O.K." carbon button is clicked in any case, the dialog box of drawing 52 C will be displayed and the registration matter of group setting will be displayed. This display is a thing at the time of adding IP information registered this time to the existing group. in this display, it is used also as a P code to which IP information registered this time gave the adjunct (suffix) "#77" to the P code for IP of a link place (parent code section) that it is with "link number:#77" -- thing semantics is carried out. That is, IP information which carried out group setting can be accessed also as a P code for IP of itself also as a P code for IP of a link place (it identifies by the adjunct), and the latter is used in order to mainly update information. If the "O.K." carbon button is clicked, it will progress to step S1019.

[0162] The dialog box shown in drawing 53 is displayed, and the matter inputted with the P code for IP given to registered IP information until now is expressed as step S1019 in a list format. After checking a

display, an information provider's click of "registration" carbon button advances him to step S1020. [0163] P service server 200 stores in IP information registration table having shown the information inputted in each above-mentioned processing corresponding to the P code for IP given to the information provider in drawing 7 at step S1020. In addition, this information can be transmitted to the IP server 300, and can also be held by the IP server 300.

[0164] Moreover, registration is performed by the procedure mentioned in general above also when an information provider performs IP information registration processing from an information provider terminal not to P service server 200 but to the IP server 300.

[0165] In this case, P service server 200 assigns the field of the available P code for IP to the IP server 300 beforehand, the IP server 300 can give an information provider the P code for IP out of the P code for IP of the assigned field, and the IP server 300 can perform IP information registration processing by notifying the P code given at least to P service server 200. If attached to this point, it mentions later by drawing 71 thru/or drawing 74.

[0166] All IP information registration processings are completed by the above.

[0167] In a <advertising information registration> P service system, the advertising provider who offers advertising information needs to register the content of advertising information to P service server 200 or the IP server 300.

[0168] Registration can be performed by submitting storages, such as CDROM which carried out when an advertising provider accessed P service server 200 or the IP server 300 through Web from the terminal (henceforth an advertising provider terminal) which carries out possession etc., and which is not illustrated, or recorded the content of advertising information, to the employment person of P service system.

[0169] The case where an advertising provider registers the procedure of the starting advertising information registration into P service server 200 through Web hereafter is explained.

[0170] If an advertising provider accesses advertising information registration of P service server 200 from an advertising provider terminal, P service server 200 will perform processing of step S114 in drawing 19, and will number the P code for advertising information internally. In addition, since this P code is chiefly used for internal processing of P service server 200, it is not indicated by the advertising provider in principle.

[0171] Then, it progresses to step S115 and advertising information registration processing is performed.

[0172] Drawing 54 is the flow chart of advertising information registration processing.

[0173] Many screens for advertising information registration are displayed on the display of an advertising provider terminal, and an advertising provider is made to input a registration matter by the so-called GUI in this advertising information registration processing like the user registration processing and IP information registration processing which were mentioned above.

[0174] At step S1050, the dialog box shown in drawing 55 is displayed, and it judges whether an advertising provider is the member of P service system. A member means those who applied as an advertising provider beforehand, and advertising information cannot be offered if it is not the member. It is because accounting is followed on advertising printing. In addition, a member number and a password are given by application.

[0175] In this dialog box, in the case of a member, an advertising provider checks the radio button of "yes" and inputs a member number further. In the case of a non-member, the radio button of "no" is checked. \*\* [ a click of a "degree" / progress / to step S1051 / it / in the case of a non-member ] In the case of a member, the dialog box further shown in drawing 56 is displayed, and the input of a password is required. If the password which the advertising provider entered is normal, it will progress to step S1052.

[0176] In addition, if the information inputted with each dialog box when the "degree" was clicked is saved, it progresses to the next processing and it clicks "it returns", it will return to the first dialog box, without saving the inputted information, and saving return and the inputted information further, to processing of one this side, if "registration cancellation" is clicked. As for this, the same is said of each following processing.

[0177] The dialog box shown in drawing 57 is displayed, and the information for specifying the advertising provider concerned as a non-member's advertising provider is made to input at step S1051. It is because accounting is followed on advertising printing as mentioned above. After an input, if a "degree" is clicked, it will progress to step S1052.

[0178] At step S1052, the dialog box shown in drawing 58 is displayed, and advertising information to register is specified. An advertising provider inputs the file name of the stereo (contents) of advertising information saved to the advertising provider terminal. In this case, a multiple-files name can also be specified. The function of "file designation" carbon button and "deletion" carbon button is the same as that of the case of drawing 40 in IP information registration processing mentioned above. In addition, an image

or text is sufficient as advertising information to register.

[0179] If a "degree" is chosen in the dialog box shown in drawing 58, it will progress to step S1053.

[0180] The content of the specified file is indicated by preview (drawing 59), and an advertising provider is made to check this at step S1053. After a check, if an advertising provider clicks a "degree" carbon button, a dialog box as shown in drawing 60 will be displayed, and the file as which it was specified will be transmitted to P service server 200. It progresses to step S1054 after a transfer.

[0181] The property of the transmitted advertising information is set up at step S1054. In setting out of a property, the dialog box shown in drawing 61 is displayed first, and the printing opening day of the advertising information concerned and an expiration date (printing length) can be set up. If a "degree" is chosen in the dialog box of drawing 61, the dialog box shown in drawing 62 will be displayed, and another property will be set up.

[0182] Here, the approach of a link with IP information which demands printing of advertising information is set up. It sets according to the display of a dialog box they to be an area, an age group, sex, a keyword or the informational content, and \*\*\*\*\*\*, and if it can specify carrying advertising information to common IP information, for example, the "area" of drawing 62 is chosen and a "detail setting-out" carbon button is clicked, the dialog box shown in drawing 63 is displayed, and definition of a concrete area can be set up. If a "degree" is chosen in the dialog box of drawing 63, the dialog box shown in drawing 64 will be displayed, and still more nearly another property will be set up.

[0183] Here, the size of the advertising information previously transmitted to P service server 200 etc. is displayed, and an advertising provider can specify the propriety of assignment of the size at the time of a print, and cutback amplification of advertising information, a print position, etc. For example, about the component stereo box of the selection column of printing size, if a right-hand side arrow head is clicked, as shown in drawing 65, the list of print size is displayed, and an advertising provider can choose desired print size. If a "degree" is chosen in the dialog box of drawing 64, the dialog box shown in drawing 66 will be displayed, and still more nearly another property will be set up.

[0184] Here, the printing method of the advertising information printed is set up. An advertising provider can impose the limit which starts by checking the check box of a desired limit item. In addition, besides the illustrated limit item, when modification of the content corresponding to a color and monochrome print and a print include plurality, imposing a limit of creation of printing in the same location or the advertising information on a series thing etc. is considered. If a "degree" is chosen in the dialog box of drawing 66, the dialog box shown in drawing 67 will be displayed, and still more nearly another property will be set up.

[0185] Here, accounting to printing of advertising information is set up. In this dialog box, the charge of printing of 1 time of advertising information is displayed, and the limit of accounting to the sum total can be specified by the upper limit of the count of a print, or the charge of printing. Under the present circumstances, if the radio box of the column "which specifies the count of the maximum printing" is checked, that count can be specified further, and similarly, if the radio box of the column "which specifies the upper limit of ad rates" is checked, the upper limit of the charge of printing can be specified further.

[0186] Setting out of the property in step S1054 is ended above, and it progresses to step S1055.

[0187] The dialog box shown in drawing 68 is displayed, and the matter inputted until now is expressed as step S1055 in a list format. In addition, a P code is not displayed in principle. An advertising provider will progress to step S1056, if "registration" carbon button is clicked after checking a display. In addition, when "registration" carbon button is clicked, the dialog box shown in drawing 69 can be displayed, and printing of the detail of the advertising information registered in the advertising provider terminal can also be enabled.

[0188] P service server 200 stores in the advertising information table having shown the information inputted in each above-mentioned processing corresponding to the P code which numbered previously in drawing 8 at step S1056. Moreover, this can also be transmitted to the IP server 300. In addition, although P service server 200 surely holds the property (advertising information table) of the registered advertising information, the stereo (contents) itself may be held to any of P service server 200 or the IP server 300.

[0189] Moreover, registration is performed by the procedure mentioned in general above also when an information provider performs IP information registration processing from an information provider terminal not to P service server 200 but to the IP server 300.

[0190] In this case, P service server 200 assigns the field of an available P code to the IP server 300 beforehand, the IP server 300 can give a P code out of the P code of the assigned field, and the IP server 300 can perform advertising information registration processing by transmitting the given P code and its table information to P service server 200 eventually.

[0191] All advertising information registration processings are completed by the above.

[0192] <P-code numbering processing>, next the numbering processing of a P code shown at steps S111, S112, and S114 of drawing 19 are explained.

[0193] Drawing 70 is a flow chart explaining the numbering procedure of a personal P code shown in step S111.

[0194] If User Information registration is performed, a user's cellular-phone number, the telephone number, or a FAX number will be inputted by the procedure according to GUI mentioned above. In the case of a personal P code, one of the these-inputted numbers will be used for the number section (P-code number) of a P code. With this operation gestalt, priority is given in order of a cellular-phone number, the telephone number, and a FAX number. Therefore, when two or more numbers are inputted by the user, the number used for the number section of a P code is determined according to this priority. For example, a cellular-phone number and a cellular-phone number with priority high when the telephone number is inputted are used for numbering of a P code.

[0195] When the cellular-phone number is inputted, processing progresses to step S3004 from step S3001, and extracts a cellular-phone number. Moreover, when a cellular-phone number is not inputted but the telephone number is inputted, it progresses to step S3005 from step S3002, and the telephone number concerned is extracted. Furthermore, when only the FAX number is inputted, it progresses to step S3006 from step S3003, and the FAX number concerned is extracted. When neither a cellular-phone number nor the telephone number nor a FAX number is inputted, it progresses to error processing of step S3009, and a user is urged to input [ of a cellular-phone number, the telephone number, and a FAX number ] either at least.

[0196] Now, if a number is extracted in either of steps S3004-S3006, the number extracted in step S3007 will confirm whether to overlap the personal used P code. When overlapping, it progresses to step S3009 and that is notified. On the other hand, if the extracted number is unique within a personal P code, it will progress to step S3008 from step S3007, the extracted number concerned will be determined as the number section of a P code, and a P code will be assigned to the user concerned.

[0197] A personal P code is determined based on a user's cellular-phone number, the telephone number, and a FAX number as mentioned above.

[0198] Next, numbering of the P code for IP by step S112 of drawing 19 is explained. The P code for IP may be numbered by the case where it is numbered by P service server 200, and the IP server 300.

[0199] When numbering by the IP server 300, an individual information ID number (internal code) is connected to the site number (EKUSUTANARU code) beforehand assigned to IP server, and a P code is generated for it. That is, each IP server has the site number (see an EKUSUTANARU code and drawing 18 ) assigned from P service server 200. And according to a registration demand of IP information, the IP server 300 assigns an internal code, and one P code is obtained by connecting an EKUSUTANARU code and an internal code. In addition, the number of the P codes which this IP server can assign is equal to the number of internal codes. Therefore, first, quota processing of the EKUSUTANARU code to IP server will be explained, and, below, numbering processing of the P code for IP will be explained after that.

[0200] Drawing 71 is a flow chart explaining the procedure in which P service server assigns the EKUSUTANARU code of a P code to IP server.

[0201] In step S3021, if a P-code demand is received from IP server, site magnitude will be determined in step S3022 (determined according to a demand of the magnitude from IP server). If site magnitude is determined, 20th bit [ the 17th bit to ] 4 bits of drawing 18 will be determined (since the object for quota of a code is an external server, naturally the 17th bit (server discernment bit) is set to "0"). Next, in step S3023, the code value for the EKUSUTANARU code section decided according to the site magnitude determined in step S3022 is determined. For example, when site magnitude is middle-scale, as shown in drawing 18 , the 36th bit turns into a bit for EKUSUTANARU codes from the 21st bit, and the code value expressed with 16 bits is determined. The code value determined here is a code which is not assigned to other sites, of course at the event.

[0202] Drawing 72 is drawing showing the data configuration of the P-code activity registration table used with this operation gestalt. This P-code activity registration table is held by P service server 200, like a graphic display, for every site magnitude of a pole small scale, a small scale, middle-scale, large-scale, and pole large-scale, matches the EKUSUTANARU code already assigned to the site (IP server) and URL of a site, and is registered. At the above-mentioned step S3023, it is decided with reference to this P-code activity registration table that it will be the EKUSUTANARU code which should detect and assign an intact EKUSUTANARU code. Here, it matches with an EKUSUTANARU code and the information to register is not restricted to URL that what is necessary is just the information which can specify the database which

stores the information in IP server, i.e., the identification information of a database, (address). This is because the information offered to assignment of a P code in a system may not be what was placed on Web. [0203] At step S3024, it notifies to the site of P-code demand origin by using as an EKUSUTANARU code the value determined in the above step S3022 and step S3023. In this way, the site which required the P code can number now the P code to IP information using the bit for individual information [ number / (EKUSUTANARU code) / site ] ID according to reception and site magnitude (internal code) from P service server 200.

[0204] At step S3025, the P-code activity registration table shown in drawing 72 is updated. That is, URL (identification information of a database) of the EKUSUTANARU code determined in step S3022 and step S3023 and the site of P-code demand origin is matched, and it registers with the P-code activity registration table shown in drawing 72. In addition, when the P code for IP is later specified from P service terminal 100, it can know whether by referring to this P-code activity registration table, P service server 200 will notify the specified P code concerned to which site, and should just acquire information.

[0205] Next, numbering processing of a P code [ in / for a registration demand of IP information / a carrier beam server (P service server or IP server) ] is explained. In the following examples of processing, a P code is numbered using the P-code activity table which registered the expiration date of P codes each.

[0206] Drawing 73 is drawing showing the data configuration of a P-code activity table. Each IP server holds a P-code activity table as shown in drawing 73, and refer to this for it at the time of P-code numbering. The number section (number expressed with the 17-55th bit if it is the number and P service server 200 which joined the EKUSUTANARU code and the internal code when it was IP server) of a P code, and the expiration date of the code concerned are registered into the P-code activity table. In addition, the expiration date of a code is the same data as "the expiration date of a code" shown in IP information registration table of drawing 7. The date which the information provider set up in GUI of drawing 44 at the time of IP information registration is registered into the expiration date of a code. Or the date [ after a predetermined period ], for example, three months, back is automatically set up from the expiration date of the information which the information provider set up in IP information registration. By doing in this way, the intact period of a P code will be given and nonconformity from which the content to which the same P code was assigned bordering on one day changes a lot can be avoided. In addition, probably, you may make it record only an internal code on the column of "the number section of a P code" of a P-code activity table, since the EKUSUTANARU code is common in one site.

[0207] What is necessary is just to register into the column of "the number section of a P code" the code expressed with these 40 bits, since the number section of a P code consists of 40-bit code sections for a personal P code in P service server 200.

[0208] Drawing 74 is a flow chart explaining numbering processing of the code for IP. If step S112 of drawing 19 is performed in response to a registration demand of IP information, in step S3041, an usable P code will be first detected in the server concerned with reference to an above-mentioned P-code activity table. At step S3042, one P code is determined out of an usable P code, and this is assigned to the IP information concerned. Here, when IP server assigns a P code, the P-code activity table mentioned above is searched, an intact internal code is gained, the EKUSUTANARU code of this and the IP server concerned, a class classification code (code which shows site magnitude), and a server discernment bit (= 0) are connected, and the P code which numbers that it should give information is determined. On the other hand, when P service server 200 assigns a P code, as shown in drawing 18, a P code is obtained by connecting a 39-bit intact code to a discernment bit (the 17th bit = 1).

[0209] In addition, although "the expiration date of a code" has run out, an intact P code This intact decision may search the P code over which the expiration date of the code stored in the table has passed at the event of numbering. Hour entries, such as a year, the moon, and a day, are always compared with the expiration date of the code in a table, and when it passes over the expiration date of a code, you may make it store an intact identifier in a table.

[0210] Next, in step S3043, the P-code activity table in the server concerned is updated. That is, the expiration date of the newly assigned P code and its P code is set in the predetermined period of the IP information concerned set or set as the length specified at the time of IP information registration by the information provider (for example, three months after etc.).

[0211] The P code for IP is numbered as mentioned above. In addition, although the expiration date of a code is referred to at the time of numbering of the P code for IP, it will be confirmed whether to be in the range of the "printing opening day" and "the informational expiration date" when this time was registered into IP information registration table ( drawing 7 ) of the P code concerned on the occasion of the ejection of

the information corresponding to the specified P code for IP.

[0212] In addition, in this example, in order to perform numbering processing at a high speed, a table as shown in drawing 73 is prepared, but probably, it will be clear that you may make it number with reference to this, since the expiration date of a code is registered into IP information registration table as shown in drawing 7. Moreover, you may make it judge whether the code which carried out temporary numbering of the IP code usable within the server concerned for information registration, and carried out temporary numbering with reference to the expiration date of the code registered into IP information registration table, for example is usable. In this case, it judges whether the events (a year, the moon, day, etc.) of numbering by which temporary numbering was carried out are within the expiration date of a code, when it is judged that it has passed over the expiration date of a code, numbering of the code for IP concerned is forbidden, and temporary numbering of a different code for IP and previous decision are repeated until the P code for IP is numbered eventually.

[0213] In addition, numbering of the P code to advertising information is the same as that of the numbering approach of the P code to IP information fundamentally.

[0214] <Explanation of various services>, next information acquisition processing of step S116 (It considers as data utility hereafter), mail data acquisition processing of step S117 (It considers as mail service hereafter), personal information acquisition processing of step S118 (It considers as personal data utility hereafter), acquisition processing of the distribution data of step S119 (It considers as distribution service (reception of the registered information) hereafter), registration processing of the information for distribution on step S123. The example of the display screen displayed on the touch panel 104 of P service terminal 100 in the case of performing the detail of (considering as distribution service (informational registration) hereafter) and each processing is explained.

[0215] First, the initial screen for performing various services is explained using drawing 75.

[0216] In drawing 75, the carbon button 2001 - the carbon button 2004 are arranged in the initial screen 2000. In offering data utility, mail service, personal data utility, and distribution service (reception of the registered information) among these carbon buttons, it inputs the P code for performing each service using either a carbon button 2001 - the carbon button 2003. When inputting a P code using a touch panel 104, the depression of the carbon button 2001 is carried out. When inputting a P code using a personal digital assistant 400, the depression of the carbon button 2002 is carried out. When inputting a P code using a bar code reader 107, the depression of the carbon button 2003 is carried out. When offering distribution service (informational registration) mentioned later, the depression of the carbon button 2004 is carried out.

[0217] A push on the carbon button 2001 in an initial screen 2000 displays Screen 2005 shown in drawing 76.

[0218] Screen 2005 is an input screen of a P code, and inputs the P code for performing various services, such as data utility, mail service, distribution service (reception of the registered information), and personal data utility.

[0219] In Screen 2005, 2006 is a ten key group and inputs a desired P code using each ten key of this ten key group 2006. The inputted P code is displayed on a field 2007. And in completing an input and understanding the inputted P code, it carries out the depression of the carbon button 2008. Moreover, in canceling the inputted P code, it pushes a carbon button 2009, and the P code displayed on the field 2000 is eliminated. Moreover, in correcting the inputted P code, it pushes a carbon button 2010, and cursor (un-illustrating) is used on a field 2007, and the P code for correction is corrected. When inputting the P code about the information on overseas, the depression of the carbon button 2011 is carried out.

[0220] If a carbon button 2008 is pushed, the configuration of the inputted P code will be judged and the screen for performing various services, such as data utility, mail service, distribution service (reception of the registered information), and personal data utility, or Screen 2012 shown in drawing 77 will be displayed based on the judgment result. Moreover, when the expiration date of the inputted P code has run out, the screen (un-illustrating) in which that is shown is displayed.

[0221] Carbon buttons 2015-2017 are arranged with the ten key group 2013 for entering a password into Screen 2012 of drawing 77. Moreover, according to the input of a password, \* mark is displayed on a field 2014.

[0222] If the depression of the carbon button 2015 is carried out after the input of a password is completed, based on the judgment result of the configuration of the P code inputted on Screen 2005 of drawing 76, the screen for performing data utility, mail service, distribution service (reception of the registered information), and various services of personal data utility will be displayed. In addition, the P code inputted with this operation gestalt as a digit string divided with the hyphen every (every four figures) 4 figures is judged as

"the non-telephone number" (P code for IP). The P code inputted by the other digit string (digit string which is not every 4 figures though it is not divided with a hyphen or was divided with the hyphen) is judged to be the "telephone number" (personal P code).

[0223] When the inputted P code is "telephone number #Subcode" as a result of a judgment, the screen for performing mail service is displayed. About the detail of this screen, it mentions later. Moreover, when the inputted P code is "telephone number-Subcode", the screen for performing distribution service (reception of the registered information) is displayed.

[0224] Moreover, when the inputted P code is "the non-telephone number", the screen for performing data utility is displayed.

[0225] Moreover, when the inputted P code is "telephone number ##Subcode", the screen for performing personal data utility is displayed.

[0226] On the other hand, a push on the carbon button 2002 in the initial screen 2000 of drawing 75 displays Screen 2018 shown in drawing 78.

[0227] Screen 2018 is an input screen of the P code by the personal digital assistant 400. After completion of an input, if the depression of the carbon button 2019 is carried out, the configuration of the inputted P code will be judged and the screen for performing data utility, mail service, distribution service (reception of the registered information), and various services of personal data utility or Screen 2012 shown in drawing 77 will be displayed based on the judgment result. Moreover, in canceling the inputted P code, it carries out the depression of the carbon button 2020. Moreover, when the expiration date of the inputted P code has run out, the screen (un-illustrating) in which that is shown is displayed.

[0228] On the other hand, a push on the carbon button 2003 in the initial screen 2000 of drawing 75 displays Screen 2021 shown in drawing 79.

[0229] Screen 2021 is an input screen of the P code by the bar code reader 107. After completion of an input, if the depression of the carbon button 2022 is carried out, the configuration of the inputted P code will be judged and the screen for performing data utility, mail service, distribution service (reception of the registered information), and various services of personal data utility or Screen 2012 shown in drawing 77 will be displayed based on the judgment result. Moreover, in canceling input code, it carries out the depression of the carbon button 2023. Moreover, when the expiration date of the inputted P code has run out, the screen (un-illustrating) in which that is shown is displayed.

[0230] Next, the screen displayed based on the judgment result of the configuration of the inputted P code is explained.

[0231] First, the screen for performing data utility displayed when the inputted P code is the non-telephone number is explained using drawing 80.

[0232] On Screen 2025, when the inputted P code is a P code for IP, it is a screen for displaying the content of the information corresponding to the P code for IP. Specifically, the title of the information corresponding to a P code and it, the number of pages, a printing tariff, and printing conditions (especially with this operation gestalt, it can specify by making existence of assignment of printing of a color/black and white and printing into printing conditions, and carbon buttons 2027a-2027c are prepared, respectively) are displayed on a field 2027.

[0233] A field 2028 is a field which displays the accounting information generated when printing the information displayed on a field 2027. Carbon button 2028a is arranged, and when carrying an advertisement in accordance with the information to print, a depression is carried out to a field 2028. A push on this carbon button 2028a displays the screen shown in drawing 82 for setting up advertising printing conditions. About the detail of this screen, it mentions later.

[0234] When performing print preview presenting of the information for printing, the depression of the carbon button 2029 is carried out. When printing the information for printing, the depression of the carbon button 2030 is carried out. When returning to a before screen, the depression of the carbon button 2031 is carried out. When canceling the content of setting out set up by the display of Screen 2025, the depression of the carbon button 2032 is carried out. A carbon button 2026 will carry out regeneration of Screen 2005 of drawing 76, if it pushes when inputting a P code further, and this carbon button 2026 is pushed.

[0235] A push on a carbon button 2029 displays Screen 2033 shown in drawing 81.

[0236] In Screen 2033, a field 2034 is a preview field which displays the content of the information for printing. When displaying the following page of the information for printing, the depression of the carbon button 2035 is carried out. When displaying the front page of the information for printing, the depression of the carbon button 2036 is carried out. When returning to the Maine screen (this operation gestalt screen 2025 of drawing 80), the depression of the carbon button 2037 is carried out.

[0237] On the other hand, a push on carbon button 2028a in Screen 2025 of drawing 80 displays Screen 2038 shown in drawing 82.

[0238] Screen 2038 is a screen for setting up the printing conditions of the advertisement carried together with the information for printing, as shown in drawing 82, it is possible for the setting-out item group (this operation gestalt -- "printing to the tooth space as for which the report was vacant", "printing at the rear face", and "1 more page printing") of printing conditions to be displayed, and to specify the existence of activation of each item by the carbon button group 2039 in Screen 2038. When understanding the set-up printing conditions, the depression of the carbon button 2040 is carried out. When canceling the set-up printing conditions, the depression of the carbon button 2041 is carried out.

[0239] In addition, although the user is enabling setting out of advertising printing conditions, a suitable advertisement is searched to the information for printing, and you may make it generate the print data which consist of the searched advertisement and information for printing on Screen 2038, so that accounting in case P service server 200 prints the information for printing may be lost. About the advertising retrieval processing by this P service server 200, it mentions later.

[0240] Next, the screen for performing distribution service (reception of the registered information) displayed when the mail service displayed when the inputted P code is "telephone number #Subcode", and the inputted P code are "telephone number-Subcode(s)" is explained using drawing 83.

[0241] In addition, by identifying the predetermined notation included in a P code by the above-mentioned approach with this operation gestalt The suffix part added to the telephone number by the judgment of any of "#Subcode", "-Subcode", and "##Subcode" to be Although it determined whether to have been for performing any of mail service, distribution service, and personal data utility The class of service which carries out a direct reference to P code table showing the inputted personal P code in drawing 10, drawing 11, and drawing 12 and which is performed by P service server 200 is judged. You may make it determine the screen (the actuation screen about which service is it?) to display based on the judgment result.

[0242] Here, the screen for performing mail service is explained using drawing 83.

[0243] Screen 2042 is a screen for displaying the content of mail of the user corresponding to the personal P code which input code shows. the suffix in the P code specifically inputted into the field 2046 (#n --) The subject (Subject) of n:0, 1 and 2, --, the mail corresponding to it, a transmitting person, the number of pages, printing conditions (with this operation gestalt) especially, it can specify by making existence of assignment of printing of a color/black and white, and printing into printing conditions, and carbon buttons 2046a-2046c are prepared, respectively -- \*\*\*\* -- it is displayed.

[0244] A field 2047 is a field which displays the content of printing of mail for [ in a field 2046 ] printing. In addition, carbon button 2028a in Screen 2025 of above-mentioned drawing 80 is displayed, and it is good also as setting out of that a user carries an advertisement together with e-mail being possible, and you may make it P service server 200 search the suitable advertisement to mail for printing.

[0245] When performing the print preview display of mail for printing, the depression of the carbon button 2048 is carried out. When this carbon button 2048 is pushed, the screen of drawing 81 mentioned above is displayed. When setting up the printing option of mail for printing, the depression of the carbon button 2049 is carried out. A push on this carbon button 2049 displays the screen shown in drawing 84 for setting up a printing option. About the detail of this screen, it mentions later. When printing mail for printing, the depression of the carbon button 2050 is carried out. When returning to a before screen, the depression of the carbon button 2051 is carried out. When canceling the content of setting out set up by the display of Screen 2042, the depression of the carbon button 2052 is carried out.

[0246] When all printing the mail managed by P service server 200, the depression of the carbon button 2043 is carried out. When a suffix displays the content of mail of a small number among the mails which cannot be displayed on a field 2046, the depression of the carbon button 2044 is carried out. When a suffix displays the content of mail of a large number among the mails which cannot be displayed on a field 2046, the depression of the carbon button 2046 is carried out.

[0247] In addition, when the number of the suffix (#n) added to the telephone number which is the inputted P code is "0", it expresses as this operation gestalt as are shown in a field 2046 and the mail corresponding to the number of a suffix can be displayed. Moreover, when the number of a suffix is except "0", the mail corresponding to the suffix which is in agreement with the number is displayed. Moreover, in the case of the screen for performing distribution service (reception of the registered information) displayed when the inputted P code is "telephone number-Subcode", according to the number of a suffix, the display is controlled like the case where the content of the information registered with distribution service displays the content of e-mail on a field 2046. In addition, although it is \*\*\*\*\*, even if it does not print in the case of e-

mail information, it cannot be overemphasized that the function in which e-mail can be deleted is offered.  
[0248] A push on a carbon button 2049 displays Screen 2053 shown in drawing 84.

[0249] Screen 2053 is a screen for setting up the printing option of mail for printing. As shown in drawing 84, it is possible for the item group (for it to be "printing e-mail after the same paper" and "putting and printing in the smallest possible alphabetic character" at this operation gestalt) which can be set up as a printing option to be displayed in Screen 2053, and to specify the existence of activation of each item by the carbon button group 2054. When understanding the set-up printing option, the depression of the carbon button 2055 is carried out. When canceling the set-up printing option, the depression of the carbon button 2056 is carried out.

[0250] Next, the screen for performing personal data utility displayed when the inputted P code is "telephone number ##Subcode" is explained using drawing 85.

[0251] Screen 2057 is a screen for displaying the content of the personal data utility, when the inputted P code is personal data utility. Specifically, the suffix in the inputted P code (##m, m:0, 1 and 2, --), the content of the information corresponding to it, the number of pages, and the carbon buttons 2061a and 2061b that set up the existence of printing are displayed on a field 2061.

[0252] A field 2062 is a field which displays the content of printing of the information for [ in a field 2061 ] printing.

[0253] In addition, the information group managed by the suffix (##m) is called a frame.

[0254] When changing the content of the frame which registers a frame newly and which is case [ the frame ] or registered, the depression of the carbon button 2063 is carried out. A push on this carbon button 2063 displays the screen shown in drawing 86 for performing registration and modification of information. About the detail of this screen, it mentions later. When performing the print preview display of the frame for printing, the depression of the carbon button 2064 is carried out. When printing the frame for printing, the depression of the carbon button 2065 is carried out. When returning to a before screen, the depression of the carbon button 2066 is carried out. When canceling the content of setting out set up by the display of Screen 2057, the depression of the carbon button 2067 is carried out.

[0255] When all printing the frame managed by P service server 200, the depression of the carbon button 2058 is carried out. When a suffix displays the content of the frame of a small number among the frames which cannot be displayed on a field 2061, the depression of the carbon button 2059 is carried out. When a suffix displays the content of the frame of a large number among the frames which cannot be displayed on a field 2061, the depression of the carbon button 2060 is carried out.

[0256] In addition, when the number of the suffix (##m) added to the telephone number which is the inputted P code is "0", it expresses as this operation gestalt as are shown in a field 2061 and the frame corresponding to the number of a suffix can be displayed. Moreover, when the number of a suffix is except "0", the frame corresponding to the suffix which is in agreement with the number is displayed.

[0257] A push on a carbon button 2063 displays Screen 2068 shown in drawing 86.

[0258] The ten key group 2069 for specifying the suffix registration or for modification (##m) and the field 2071 which displays the inputted suffix (##m) consist of Screens 2068. In registering a frame newly especially, it carries out the depression of the carbon button 2069. When understanding the inputted suffix (##m), the depression of the carbon button 2072 is carried out. When canceling the inputted suffix (##m), the depression of the carbon button 2073 is carried out. When correcting the inputted suffix (##m), the depression of the carbon button 2074 is carried out.

[0259] A push on a carbon button 2072 or a carbon button 2069 displays Screen 2075 shown in drawing 87.

[0260] Screen 2075 is a screen for displaying the content of the information group managed with the frame corresponding to the suffix (##m) inputted into the field 2071. Specifically, the content corresponding to the P code and it which are managed with the frame, and the carbon buttons 2078a and 2078b which set up the existence of registration are displayed on a field 2078.

[0261] When registering information (P code) into this frame further, the depression of the carbon button 2079 is carried out. A push on this carbon button 2079 displays the screen of drawing 76 mentioned above for registering a P code. On the other hand, when the carbon button 2069 of drawing 86 is pushed, for registration of a new frame, there is no information managed with the frame corresponding to the inputted suffix (##m), and a field 2078 serves as a null display.

[0262] When understanding the registration condition of the information registered with a frame, the depression of the carbon button 2080 is carried out. When returning to a before screen, the depression of the carbon button 2081 is carried out. 2082 carries out the depression of the content of setting out set up by the

display of Screen 2075, when canceling the content of registration.

[0263] If the depression of the carbon button 2080 is carried out, Screen 2083 shown in drawing 88 will be displayed.

[0264] Screen 2083 is a screen for setting up the size of the form used when printing the registered frame. 2084, 2085, and 2086 are fields which display the size of an usable form on printing, and if they carry out the depression of the field of the size of a form which a user wants to specify, the display of the pushed field will be reversed and they will report to a user what was specified. A carbon button 2087 and a carbon button 2088 are carbon buttons for setting up the sense (horizontal, vertical) of the form used, respectively. When understanding the size and the sense of a form which are used for specified printing, the depression of the carbon button 2089 is carried out. When returning to a before screen, the depression of the carbon button 2090 is carried out. When canceling the content of setting out set up by the display of Screen 2083, the depression of the carbon button 2091 is carried out.

[0265] Next, the screen for performing distribution service (informational registration) performed when the carbon button 2004 in the initial screen 2000 of drawing 75 is pushed is explained in order.

[0266] First, a push on the carbon button 2004 in an initial screen 2000 displays Screen 2092 shown in drawing 89.

[0267] Screen 2092 is an input screen of a P code, and inputs the P code (a user's telephone number) for performing distribution service (informational registration).

[0268] In Screen 2092, 2093 is a ten key group and inputs a P code using each ten key of this ten key group 2093. The inputted P code is displayed on a field 2094. And in understanding the inputted P code, it carries out the depression of the carbon button 2095. Moreover, in canceling the inputted P code, it pushes a carbon button 2096, and the P code displayed on the field 2094 is eliminated. Moreover, in correcting the inputted P code, it pushes a carbon button 2097, and cursor (un-illustrating) is used on a field 2094, and the P code for correction is corrected. When inputting an overseas P code, the depression of the carbon button 2098 is carried out.

[0269] A push on a carbon button 2095 displays Screen 2099 shown in drawing 90. However, when the expiration date of the inputted P code has run out, the screen (un-illustrating) in which that is shown is displayed.

[0270] Since it corresponds to each components 2013-2017 in Screen 2012 of drawing 77, respectively about each components 2100-2104 in Screen 2099, and the function of those, explanation is omitted here.

[0271] A push on the carbon button 2102 in Screen 2099 of drawing 90 displays Screen 2105 shown in drawing 91.

[0272] Screen 2105 is a screen for choosing the registration approach of the information in distribution service (informational registration). When registering information using a scanner, the depression of the carbon button 2106 is carried out. When registering information using an external instrument, the depression of the carbon button 2107 is carried out. And a push on one of carbon buttons displays the screen according to the carbon button. In addition, about the detail of a screen, it mentions later. When returning to a before screen, the depression of the carbon button 2108 is carried out. When canceling informational registration, the depression of the carbon button 2109 is carried out.

[0273] A push on a carbon button 2106 displays Screen 2110 shown in drawing 92.

[0274] Screen 2110 is a screen which directs to set the manuscript for registration to a scanner 102 to a user. A carbon button 2111 carries out the depression of the set manuscript, when performing alter operation. A push on a carbon button 2111 displays Screen 2114 shown in drawing 93. When returning to a before screen, the depression of the carbon button 2112 is carried out. When canceling the alter operation of the set manuscript, the depression of the carbon button 2113 is carried out.

[0275] On the other hand, if the carbon button 2107 in Screen 2105 of drawing 91 is pushed, the same screen as the dialog box of drawing 40 is displayed, and information can be registered using external instruments, such as a disk unit 108 and the infrared receive section 105. If information to register is specified and a "degree" is chosen, Screen 2114 shown in drawing 93 will be displayed. In addition, information to register may be an image and may be text.

[0276] Screen 2114 of drawing 93 is a screen for displaying the preview of the information for registration. A field 2115 is a field which displays the preview of the information for registration. When displaying the preview of the information on the continuation of information by which it is indicated by current, the depression of the carbon button 2116 is carried out. If a carbon button 2117 is pushed when registering still more nearly another information, and this carbon button is pushed, regeneration of the screen shown in drawing 91 will be carried out. When canceling registration of the information displayed on the field 2115,

the depression of the carbon button 2118 is carried out. When registering the information displayed on the field 2115, the depression of the carbon button 2119 is carried out.

[0277] If the depression of the carbon button 2119 is carried out, Screen 2120 shown in drawing 94 will be displayed.

[0278] Screen 2120 is a screen for setting up the password demanded when other users print the information to register. 2121 is a ten key group and enters a desired password using each ten key of this ten key group 2121. According to the input of a password, a password is displayed on a field 2122. In completing an input and understanding the entered password, it carries out the depression of the carbon button 2123. Moreover, in canceling the entered password, it carries out the depression of the carbon button 2124. Moreover, in correcting the entered password, it pushes a carbon button 2125, and cursor (un-illustrating) is used on a field 2122, and the password for correction is corrected.

[0279] A push on a carbon button 2123 displays Screen 2126 shown in drawing 95.

[0280] Screen 2126 is a screen for setting up the expiration date of the information to register. When an expiration date will be carried out by tomorrow, the depression of the carbon button 2127 is carried out. When making an expiration date into one week, the depression of the carbon button 2128 is carried out. When carrying out an expiration date in one month, the depression of the carbon button 2129 is carried out. When returning to a before screen, the depression of the carbon button 2130 is carried out. When canceling setting out of the expiration date of the information to register, the depression of the carbon button 2131 is carried out.

[0281] A push on either of the carbon buttons 2127, 2128, and 2129 displays Screen 2132 shown in drawing 96.

[0282] Screen 2132 is a screen for checking the content of registration of the information to register to a user. Specifically, the P code matched with the information for registration, a password, the amount of data, and an expiration date are displayed on a field 2133. When understanding the content of registration of the information for registration, the depression of the carbon button 2134 is carried out. When returning to a before screen, the depression of the carbon button 2135 is carried out. When canceling the content of registration of the information to register, the depression of the carbon button 2136 is carried out. When the content of registration of the information for registration is understood, the number of the registered data set as the information for distribution service from the User Information table shown in drawing 9 is added one time, and the P code (P code of the format of "telephone number-Subcode") added to registration information is added to the P-code list of the information for distribution service. Moreover, the information currently displayed on the field 2133 is registered into P code table for delivery information shown in drawing 11.

[0283] According to the screen displayed when performing each service of above data utility, mail service, distribution service (reception of registered information), personal data utility, and distribution service (informational registration), Screen 2200 shown in drawing 97 is displayed.

[0284] Screen 2200 is a screen for choosing the settlement-of-accounts approach of the tariff generated when performing each service of data utility, mail service, distribution service (reception of registered information), personal data utility, and distribution service (informational registration), and the generated tariff is displayed on the screen lower left. A user does the depression of the carbon button 2205, when paying with a carbon button 2204 and a prepaid card, in paying the generated tariff in cash, paying with a carbon button 2201 and a credit card, paying by the carbon button 2206 and online settlement of accounts and paying with a carbon button 2203 and a debit card. And a screen (un-illustrating) required in order to settle accounts according to the depression of these carbon buttons is displayed.

[0285] In returning to a before screen, it carries out the depression of the carbon button 2206. When canceling activation of selection of the settlement-of-accounts approach, the depression of the carbon button 2207 is carried out.

[0286] In addition, the data utility explained above, mail service, distribution service (reception of the registered information), The screen displayed in order to perform each service of personal data utility and distribution service (informational registration) It is the example of a screen of the main screens displayed in case actuation is performed, and is needless to say in various screens, such as a screen for checking to a user in process of actuation and a screen for inputting, being displayed suitably.

[0287] Next, the processing flow in the case of performing each service of data utility, mail service, distribution service (reception of registered information), personal data utility, and distribution service (informational registration) is explained in order.

[0288] In addition, in the following processing flows, P service server 200 transmits data (property data,

preview image, etc.) required for the information corresponding to the P code which receives from P service terminal 100, and its information to P service terminal 100 with reference to each table shown in Figs. 7 - 15. Moreover, according to data, such as printing directions of the information corresponding to the P code transmitted from P service terminal 100, the content of each table shown in Figs. 7 - 15 is updated.

[0289] First, the processing flow in the case of performing data utility is explained using drawing 98 A and drawing 98 B.

[0290] Drawing 98 A is a flow chart which shows the processing flow in the case of performing data utility of this operation gestalt. Moreover, drawing 98 B is drawing showing the order of processing in the service system in the case of performing data utility of this operation gestalt.

[0291] First, (1) user receives a P code with a personal digital assistant 400 at step S2501. (2) A user moves to P service terminal 100, where a P code is memorized to a personal digital assistant 400. (3) A P code is inputted into P service terminal 100 ( drawing 75 , drawing 76 , drawing 78 , drawing 79 ). (4) P service terminal 100 transmits the inputted terminal properties (an address, printer engine performance, etc.) of P-code and P service terminal 100 self to P service server 200.

[0292] At step S2502, (5) P service server 200 acquires the information corresponding to the P code which received. At step S2503, (6) P service server 200 transmits the contents, such as property data, such as types of services of the acquired information, a preview image, and the number of pages, to P service terminal 100. (7) P service terminal 100 displays the content of information, such as received property data, a preview image, and the number of pages, on a touch panel 104 ( drawing 80 ). Here, when directions of a print preview and advertising setting out are directed, the screen ( drawing 81 , drawing 82 ) which corresponds suitably is displayed, and the input from a user is received.

[0293] It judges whether informational printing which indicated by (8) was directed at step S2504. (9) When cancellation of printing is directed (it is NO at step S2504), P service terminal 100 transmits the purport cancellation was instructed to be to P service server 200, and ends processing. On the other hand, when (9) printings are directed (it is YES at step S2504), P service terminal 100 requires preparation of the print data of the information corresponding to a P code of P service server 200, and progresses to step S2505.

[0294] At step S2505, it judges whether the information to print is a charge. (10) When it is no charge (it is NO at step S2505), it progresses to degree processing. the settlement-of-accounts approach of settlement-of-accounts processing [ in / on the other hand, it progresses to step S2506, and / when it is (11) charges (it is YES at step S2505) / printing from a user ] -- receiving -- (12) -- according to the settlement-of-accounts approach, P service terminal 100 and P service server 200 transmit and receive required data ( drawing 97 ). And P service terminal 100 receives and prints the print data of the information for printing from P service server 200.

[0295] Next, the processing flow in the case of performing mail service is explained using drawing 99 A.

[0296] Drawing 99 A is a flow chart which shows the processing flow in the case of performing mail service of this operation gestalt. Moreover, drawing 99 B is drawing showing the order of processing in the service system in the case of performing mail service of this operation gestalt. In addition, the e-mail information which should be outputted shall be beforehand transmitted to P service server from IP server (mail server).

[0297] First, (1) user receives a P code with a personal digital assistant 400 at step S2601. (2) A user moves to P service terminal 100, where a P code is memorized to a personal digital assistant 400. (3) A P code is inputted into P service terminal 100 by the user ( drawing 75 , drawing 76 , drawing 78 , drawing 79 ). (4) P service terminal 100 transmits the inputted terminal properties (an address, printer engine performance, etc.) of P-code and P service terminal 100 self to P service server 200.

[0298] At step S2602, if the P code which (5) P service server 200 received is recognized to be an object for mail services, (6) P service terminal 100 will require the input of a password of a user ( drawing 77 ). (7) passwords are checked at step S2603. Reininput of a password is required when a password is not right (it is NO at step S2603). However, processing is ended when a right password is not entered over multiple times. On the other hand, a password progresses to step S2604 a right case (it is YES at step S2603).

[0299] At step S2604, (8) P service server 200 acquires the mail corresponding to the P code which received. At step S2605, P service server 200 transmits the content of the property data (a transmitting person, subject) of the acquired mail etc. to P service terminal 100. (9) P service terminal 100 displays the content of mail of the received property data on a touch panel 104 ( drawing 83 ). Here, when directions of a print preview and option setting out are directed, the screen ( drawing 81 , drawing 84 ) which corresponds suitably is displayed, and the input from a user is received.

[0300] It judges whether printing of the mail which indicated by (10) was directed at step S2606. (11) When cancellation of printing is directed (it is NO at step S2606), P service terminal 100 transmits the purport

cancellation was instructed to be to P service server 200, and ends processing. On the other hand, when (11) printings are directed (it is YES at step S2606), P service terminal 100 requires preparation of the print data of the mail corresponding to a P code of P service server 200, and progresses to step S2607.

[0301] At step S2607, it judges whether the mail to print is a charge. (12) When it is no charge (it is NO at step S2607), it progresses to degree processing. the settlement-of-accounts approach of settlement-of-accounts processing [ in / on the other hand, it progresses to step S2608, and / when it is (13) charges (it is YES at step S2607) / printing from a user ] -- receiving -- (14) -- according to the settlement-of-accounts approach, P service terminal 100 and P service server 200 transmit and receive required data ( drawing 97 ). At step S2609, P service terminal 100 receives and prints the print data of mail for printing from P service server 200. At step S2610, termination of printing deletes automatically the e-mail information which printing ended from P service server by transmitting advice of printing termination to P service server. [0302] Next, the processing flow in the case of performing distribution service (reception of the registered information) is explained using drawing 100 A.

[0303] Drawing 100 A is a flow chart which shows the processing flow in the case of performing distribution service (reception of the registered information) of this operation gestalt. Moreover, drawing 100 B is drawing showing the order of processing in the service system in the case of performing distribution service of this operation gestalt.

[0304] First, (1) user receives a P code with a personal digital assistant 400 at step S2701. (2) A user moves to P service terminal 100, where a P code is memorized to a personal digital assistant 400. (3) A P code is inputted into P service terminal 100 by the user ( drawing 75 , drawing 77 - drawing 79 ). (4) P service terminal 100 transmits the inputted terminal properties (an address, printer engine performance, etc.) of P-code and P service terminal 100 self to P service server 200.

[0305] At step S2702, if the P code which (5) P service server 200 received is recognized to be an object for distribution service (reception of the registered information), (6) P service terminal 100 will require the input of a password of a user ( drawing 77 ). A password is checked at step S2703. The bus WORD checked here is a password set as each delivery information. Reinforcement of a password is required when a password is not right (it is NO at step S2703). However, processing is ended when a right password is not entered over multiple times. On the other hand, a password progresses to step S2704 a right case (it is YES at step S2703).

[0306] At step S2704, (7) P service server 200 acquires the information corresponding to the P code which received. At step S2705, P service server 200 transmits the content of the property data (an information provider, subject) of the acquired information etc. to P service terminal 100. (8) P service terminal 100 displays the content of the information on the received property data on a touch panel 104.

[0307] It judges whether informational printing which indicated by (9) was directed at step S2706. (10) When cancellation of printing is directed (it is NO at step S2706), P service terminal 100 transmits the purport cancellation was instructed to be to P service server 200, and ends processing. On the other hand, when (10) printings are directed (it is YES at step S2706), P service terminal 100 requires preparation of the print data of the information corresponding to a P code of P service server 200, and progresses to step S2707.

[0308] At step S2707, it judges whether the information to print is a charge. (11) When it is no charge (it is NO at step S2707), it progresses to degree processing. the settlement-of-accounts approach of settlement-of-accounts processing [ in / on the other hand, it progresses to step S2708, and / when it is (12) charges (it is YES at step S2707) / printing from a user ] -- receiving -- (13) -- according to the settlement-of-accounts approach, P service terminal 100 and P service server 200 transmit and receive required data ( drawing 97 ). And P service terminal 100 receives and prints the print data of the information for printing from P service server 200.

[0309] Next, the processing flow in the case of performing personal data utility is explained using drawing 101A.

[0310] Drawing 101A is a flow chart which shows the processing flow in the case of performing personal data utility of this operation gestalt. Moreover, drawing 101B is drawing showing the order of processing in the service system in the case of performing personal data utility of this operation gestalt.

[0311] First, (1) user receives a P code with a personal digital assistant 400 at step S2801. (2) A user moves to P service terminal 100, where a P code is memorized to a personal digital assistant 400. (3) A P code is inputted into P service terminal 100 by the user ( drawing 75 , drawing 77 - drawing 79 ). (4) P service terminal 100 transmits the inputted terminal properties (an address, printer engine performance, etc.) of P-code and P service terminal 100 self to P service server 200.

[0312] At step S2802, if the P code which (5) P service server 200 received is recognized to be an object for personal data utility, (6) P service terminal 100 will require the input of a password of a user (drawing 77). A password is checked at step S2803. Reinput of a password is required when a password is not right (it is NO at step S2803). However, processing is ended when a right password is not entered over multiple times. On the other hand, a password progresses to step S2804 a right case (it is YES at step S2803).

[0313] At step S2804, (7) P service server 200 acquires the frame corresponding to the P code which received. At step S2805, (8) P service server 200 transmits the content of the property data (an information provider, subject) of the acquired frame etc. to P service terminal 100. (9) P service terminal 100 displays the content of the frames, such as received property data, on a touch panel 104 (drawing 85). Here, when registration of new information and modification of the registered information are directed, the screen (drawing 86 - drawing 88) which corresponds suitably is displayed, and the input from a user is received.

[0314] It judges whether printing of a frame which indicated by (10) was directed at step S2806. (11) When cancellation of printing is directed (it is NO at step S2806), P service terminal 100 transmits the purport cancellation was instructed to be to P service server 200, and ends processing. On the other hand, when (11) printings are directed (it is YES at step S2806), P service terminal 100 requires preparation of the print data of the frame corresponding to a P code of P service server 200, and progresses to step S2806. The print data of a frame are created from the registration P-code list registered into P code table for personal data utility shown in drawing 12. The P code registered into the registration P-code list is a P code to which group setting of each is carried out with this operation gestalt. About each P code by which group setting is carried out, the number (Subcode) of an adjunct acquires the P-code information which is max out of IP information table shown in drawing 7, respectively. Since all the acquired P-code information holds the link information to another P code, it can acquire the information which should be printed by searching again the P code set up as the link information. In addition, when the registration time of the acquired information which should be printed is older than the last printing day set as P code table for personal data utility shown in drawing 12, since it is considered that this information was printed in the past, it is not printed. It judges whether the frame to print is a charge at step S2807 to which all the registration days of each information acquired from the P-code list registered into P code table for personal data utility display the message (\*\*\*\*\*\*) which shows that there is no information which should be printed when older than the last printing day, and end processing. (12) When it is no charge (it is NO at step S2807), it progresses to degree processing. the settlement-of-accounts approach of settlement-of-accounts processing [ in / on the other hand, it progresses to step S2808, and / when it is (13) charges (it is YES at step S2807) / printing from a user ] -- receiving -- (14) -- according to the settlement-of-accounts approach, P service terminal 100 and P service server 200 transmit and receive required data (drawing 97). And P service terminal 100 receives and prints the print data of the frame for printing from P service server 200.

[0315] Next, the processing flow in the case of performing distribution service (informational registration) is explained using drawing 102A.

[0316] Drawing 102A is a flow chart which shows the processing flow in the case of performing distribution service (informational registration) of this operation gestalt. Moreover, drawing 10 2B is drawing showing the order of processing in the service system in the case of performing distribution service (informational registration) of this operation gestalt.

[0317] First, (1) user chooses distribution service at step S2901 (drawing 75). (2) Display the screen which requires the input of a P code of a user according to this selection (drawing 89). A P code is inputted into P service terminal 100. P service terminal 100 transmits the inputted terminal properties (an address, printer engine performance, etc.) of P-code and P service terminal 100 self to P service server 200.

[0318] At step S2902, if the P code which (3) P service server 200 received is recognized to be an object for distribution service (informational registration), P service terminal 100 will require the input of a password of a user (drawing 90). However, when the inputted P code is a non-registered thing, the demand of an input of a password is not performed. A password is checked at step S2903. Reinput of a password is required when a password is not right (it is NO at step S2903). However, processing is ended when a right password is not entered over multiple times. On the other hand, a password progresses to step S2904 a right case (it is YES at step S2903).

[0319] At step S2904, (4) users input the information for registration (drawing 91, drawing 92). At step S2905, (5) P service terminal 100 displays the content of the inputted information on a touch panel 104 (drawing 93).

[0320] It judges whether the content by which it was indicated by (6) was understood at step S2906. When not understood (it is NO at step S2906), reinput of return and information is required of step S2904. On the

other hand, when understood (it is YES at step S2906), (7) P service terminal 100 transmits property data, such as data classification of the inputted information and its information, and the number of pages, to P service server 200, and requires numbering of a P code. (8) P service server 200 starts a matching activity with property data, such as data classification of the received information and its information, and the number of pages, and a P code according to this demand. On the other hand, the input of the password set as the inputted information is required of a user ( drawing 94 ).

[0321] It judges whether the password by which (9) inputs were carried out can be set up at step S2908. When it cannot set up (it is NO at step S2908), reinput of return and a password is required of step S2907. On the other hand, when it can set up (it is YES at step S2908), the expiration date of the information progressed and inputted into step S2909 is inputted ( drawing 95 ). At step S2910, (10) P service server registers the inputted information, its password, an expiration date, etc., and numbers the P code to the information. Although it is the format of the numerical train of the "telephone number-addition number" which the P code which should be numbered consisted of combination of the numeric value showing the "telephone number", and the numeric value showing "an addition number (Subcode)", and inserted the predetermined notation (here "-") between the two numerical trains This addition number is 1 when the number of the information for distribution service on the User Information table shown by drawing 9 is 0, and it is an addition number with the minimum addition number for which the information for registered distribution service was retrieved from the P-code list when the number was not 0, and the expiration date has run out of a P code. When there is that [ no ] to which the expiration date has run out in the information for registered distribution service, an addition number serves as "the number +1 of the information for distribution service." At step S2911, (11) P service terminal 100 displays the content of registration of the registered information (a P code, a password, the amount of data, expiration date) on a touch panel 104 ( drawing 96 ).

[0322] Next, the detail of processing of step S2502 of the above-mentioned drawing 98 A, step S2604 of drawing 99 A, step S2704 of drawing 100 A, and step S2804 of drawing 27 is explained using drawing 103A and drawing 103B.

[0323] <Informational acquisition procedure> drawing 103A and drawing 103B are the flow charts explaining the acquisition procedure of IP information in P service server 200 of this operation gestalt and mail data, and distribution data. First, in step S3201, the P code inputted in P service terminal 100 judges whether it is a P code for IP. This can be judged according to the bit [ 1st ] condition of the P code concerned, as explained in drawing 17 and drawing 18 . When it is a P code for IP, it progresses to step S3202 and the contents corresponding to the P code concerned judge whether it is what exists in P service server 200. As shown in drawing 18 , it can carry out to this judgment by checking a bit [ 17th ] condition.

[0324] If IP information shown by the P code has contents in P service server 200, it will progress to step S3203 from step S3202, and IP information and its property will be acquired according to the stereo file information registered into IP information registration table as shown in drawing 7 .

[0325] On the other hand, when judged with it being IP information (namely, IP information to which contents exist in IP server side) to which contents do not exist in P service server 200 in step S3202, processing progresses to step S3204. At step S3204, a class classification value and an EKUSUTANARU code are extracted from the inputted P code. this processing -- the 18- the value of the 20th bit is extracted, a class classification value is acquired and the part of an EKUSUTANARU code is extracted based on that class classification value. For example, if a class classification value is 3 (middle-scale), the value shown by the 21st bit to the 36th bit as shown in drawing 18 will serve as an EKUSUTANARU code.

[0326] If a class classification and an EKUSUTANARU code are obtained as mentioned above, URL which corresponds at step S3205 with reference to the P-code activity registration table like drawing 72 mentioned later will be acquired. URL acquired here is the address of IP server which has the contents of the P code concerned. Therefore, at step S3206, by URL obtained at step S3205, it accesses to IP server and a P code is transmitted. In IP server, the contents and the property corresponding to the P code transmitted with reference to the P-code registration table are obtained, and this is transmitted to P service server 200.

[0327] At step S3207, the contents and the property which were transmitted from IP server as mentioned above will be received, and IP information will be acquired.

[0328] On the other hand, when the inputted P code is a personal P code, it progresses to step S3220 from step S3201. At step S3220, the contents specified by the P code concerned are acquired with reference to P code tables each as shown in drawing 12 from drawing 10 . When an adjunct is "#Subcode", the mail data which progresses to step S3224 and corresponds, and its property are obtained from step S3221.

[0329] On the other hand, when a data adjunct is "-Subcode", it progresses to step S3225 and distribution

data are acquired from step S3222 through authentication by the personal identification number.

[0330] Furthermore, when an adjunct is "##Subcode", it progresses to step S3226 and the P-code list (frame) in personal data utility is obtained from step S3223. And in step S3227, acquisition (processing of the above-mentioned steps S3202-S3207) of IP information is performed using the P code registered into the P-code list concerned.

[0331] In a <advertising retrieval processing> P service system, when a user gets a printed output in P service terminal 100, and a user refuses, except for the case where an information provider etc. refuses, fixed advertising information is automatically added to the print. Retrieval processing of the advertising information added in that case is explained below.

[0332] Drawing 104 is the flow chart of advertising retrieval processing.

[0333] At step S3001, the information on the data utility set as the object of a printed output or personal data utility, mail of mail service, or the keyword list of information \*\* of distribution service is created. This keyword list is created as follows according to the content of service.

[0334] In the case of data utility or personal data utility, a keyword is extracted with reference to the property of the IP information, the property of a user's user registration, and the property of P service terminal 100 with which a printed output is carried out.

[0335] In the case of mail service, a keyword is extracted with reference to the property of a user's user registration, and the property of P service terminal 100 with which a printed output is carried out.

[0336] When the property of P service terminal 100 with which a printed output is carried out is referred to and the user is doing user registration, the case of distribution service also has the property of user registration referred to, and a keyword is extracted.

[0337] In service [ which ], a keyword list can be created for every information. For example, in the case of data utility, the keyword list of properties of IP information, the keyword list of properties of user registration, and the keyword list of properties of P service terminal 100 can be created, respectively.

Hereafter, taking the case of the case of data utility, it explains in full detail further.

[0338] Drawing 105 (a) thru/or (d) are drawings having shown an example of the keyword [ be ] list of [ in the case of data utility ].

[0339] For example, drawing 105 (a) shows the keyword list of IP information required of the user in data utility, and "marriage" is extracted as a keyword. Hereafter, drawing 105 (b) extracts a keyword from the registration matter of user registration, and drawing 105 (c) extracts a keyword from the properties (address etc.) of P service terminal.

[0340] Moreover, the numeric value "weight" Becoming is given to each keyword. By P service system side, this numeric value is a numeric value given for every keyword based on the content of contents, taking a socially accepted idea into consideration, and in this advertising retrieval processing, it is used in order to define the priority of advertising information. When IP information containing that keyword etc. checks to a socially accepted idea, "+" of this numeric value means that an affirmative content is shown, and means indicating a negative content to be "-" of this numeric value. Moreover, numerical magnitude can be made into the value proportional to significance.

[0341] Furthermore, in P service system, the top keyword list and the lowest top keyword list which were set up by the system side can be created apart from these keyword lists.

[0342] The top keyword list is a list of keywords corresponding to the advertisement for notifying of this, when special campaign is being carried out for example, on P service system. This example is shown in drawing 105 (d).

[0343] The lowest keyword list is a list of keywords by which one of advertising information can be retrieved at least, and is a list of keywords for preventing the situation where the advertising information retrieved serves as a zero affair as a result of advertising retrieval processing. Therefore, the keyword of extensive semantics is used with the lowest keyword.

[0344] Based on the keyword list created at step S3001, the advertising information which has a keyword corresponding to this is retrieved at step S3002 by using each keyword as a search key, and the retrieval result list is further created in step S3003.

[0345] Drawing 106 (a) thru/or (e) are drawings showing an example of a retrieval result list.

[0346] A retrieval result list is created every five keyword lists mentioned above.

[0347] Drawing 106 (a) is a retrieval result list corresponding to the keyword list (drawing 105 (a)) of IP information, and shows that five advertising information was retrieved to a keyword "marriage." In this list, "weight" is the numeric value given to the keyword concerned in each advertising information, and is the numeric value of the same meaning as the "weight" mentioned above. "Whenever [ agreement ]" is the

numeric value which multiplied by it and acquired the numeric value of "weight" of both keywords. That is, if it says by the keyword list of IP information, since "matrimonial" weight was "+10", \*\*\*\*\* and the obtained result by which it multiplied are written down in the column of "whenever [ agreement ]" of drawing 106 (a) as the weight "+10, -5, +3, -4, +7" of this and the keyword of advertising information.

[0348] In this advertising retrieval processing, if the priority of advertising printing becomes high and the one where the numeric value of "whenever [ agreement ]" is larger is small, a priority will become low.

[0349] Here, as for the "weight", the same keywords also differ as shown in drawing 106 (a) thru/or (b). "Marriage" This is because there is a danger that unsuitable advertising information will be carried to the content of information printed when they are equally treated since it may be the advertisement of the consultation about divorce, if it may be the advertisement of a wedding hall even if it is the advertising information containing the becoming keyword.

[0350] And when negative advertising information is retrieved by considering as the starting handling to affirmative IP information etc., whenever [ agreement ] serves as a numeric value of "-" with the sign of "+" and "-" mutually, and a priority can be made low. On the other hand, when negative advertising information is retrieved to negative IP information etc., whenever [ agreement ] becomes "+" with the sign of "-" and "-" mutually, and a priority is not made low (for example, when it is a funeral and a hospital etc.).

[0351] At step S3004, the rearrangement is performed with reference to the property of each advertising information enumerated by the retrieval result list.

[0352] Based on the property of each advertising information, whenever [ agreement / which was computed previously ] is subtracted and added in the case of rearrangement. For example, since it is what has passed over printing length, the thing which is over the maximum accounting, \*\*, and the thing which should not be carried, a predetermined numeric value can be subtracted from whenever [ agreement / which was computed previously ]. On the other hand, what has a loose limit (it specifies with drawing 65 or the dialog box of drawing 66.) of a printed output can add a predetermined numeric value to whenever [ agreement / by which it was computed previously that this should be evaluated ]. The starting advertising information is because it can respond to the layout of arbitration, so the degree of freedom of a print is high.

[0353] Moreover, adding the numeric value according to printing frequency to whenever [ previous agreement ] is also considered in order to give priority to what has low printing frequency and to give the opportunity of advertising information printing equally.

[0354] Furthermore, it is also considered that accounting paid to the employment person of P service system from an advertising provider gives priority to a high thing, and adds a predetermined numeric value to whenever [ previous agreement ]. The advertising provider who pays high accounting should be treated favorably, and is because being easy of self becomes that payment of the countervalue of carrier beam service exempted also in a user.

[0355] Giving priority to the thing related to the information which a user demands directly, and adding a predetermined numeric value to whenever [ previous agreement ] is also considered. It is because possibility of becoming the cause of business becomes high as an advertising provider.

[0356] Thus, the final numeric value was computed by having subtracted and added whenever [ agreement ], and drawing 107 (a) thru/or (e) rearranged in order of the magnitude. It is grasped that whenever [ agreement ] is not necessarily proportional to the numeric value of "weight."

[0357] The sample layout of advertising information is created at step S3005. When sample layout takes up advertising information in the sequence that a priority is high, from drawing 107 (a) thru/or the retrieval result list of (e), two or more sample layout is created.

[0358] In addition, a priority is specified per drawing 107 (a) thru/or retrieval result list of (e). For example, it takes up from the retrieval result list of the top lists (drawing 107 (d)) first. Henceforth, the retrieval result list of IP information lists (drawing 107 (a)), the retrieval result list of user registration lists (drawing 107 (b)), It can also take up in order of the retrieval result list (drawing 107 (e)) of the retrieval result list of P service terminal lists (drawing 107 (c)), and the lowest lists.

[0359] At step S3006, the sample layout of 1 considered to be the most appropriate is chosen in consideration of want of a user, print size, sum total accounting, etc. from the sample layout of advertising information. And the P code of the advertising information, the conditions of a layout, etc. are saved specification and temporarily, and advertising retrieval processing is completed.

[0360] <Actuation of a personal digital assistant> next the P-code extract function of the personal digital assistant 400 by this operation gestalt, and a P-code transmitting function are explained.

[0361] Drawing 108 is a flow chart explaining P-code extract processing of the personal digital assistant of this operation gestalt. In addition, this processing is processing performed while displaying the content of

the mail received in the personal digital assistant 400.

[0362] At step S3101 - step S3103, it judges whether the cursor key 401,402 of a personal digital assistant 400 was operated, whether the range assignment key 404 was operated, respectively, and whether the P code key 403 was operated.

[0363] If a cursor key is operated in the display condition of e-mail, it will judge whether from step S3101, processing progresses to step S3105 and it is [ current range ] under assignment. Range assignment mode is set by actuation of a range assignment key in the below-mentioned step S3109. If it is not in current and range assignment mode, it will progress to step S3106 and cursor will be moved by making the alphabetic character in the content display of e-mail into a unit. On the other hand, if it is in range assignment mode, the field where cursor moved will be made into a selection field, and the display of the part will be reversed. And it progresses to step S3104, and if the e-mail display is continuing, if return and an e-mail display are termination, this processing will be ended to step S3101.

[0364] On the other hand, if the range assignment key 404 is operated, processing will progress to step S3108 from step S3102, and it will judge [ current and ] whether it is already in range assignment mode. If it is not in range assignment mode, it will progress to step S3109 and a mode of operation will be changed to range assignment mode. On the other hand, if current is in range assignment mode, it will progress to step S3110 and range assignment mode will be canceled. That is, a range assignment key functions as a switch which performs the on-off change in range assignment mode. Then, processing progresses to step S3104, and if the e-mail display is continuing, if return and an e-mail display are termination, it will end this processing to step S3101.

[0365] If the P code key 403 is operated, processing will progress to step S3111 from step S3103, and it will judge whether the selection field by which inverse video was carried out into the character string current on display exists. If a selection field exists, it progresses to step S3112 and the selection field is stored in P-code storage area 422c. In addition, when two or more selection fields exist, the content of all the selection fields will be stored in P-code storage area 422c. On the other hand, when a selection field does not exist in step S3111, it progresses to step S3113 and automatic extracting of the P code is carried out. Then, processing progresses to step S3104, and if the e-mail display is continuing, if return and an e-mail display are termination, it will end this processing to step S3101.

[0366] Here, the automatic extracting of the P code in step S3113 is explained. Drawing 109 is a flow chart explaining automatic extracting processing of the P code in step S3113.

[0367] The character string surrounded with two tags, <Pcode> and </Pcode>, is searched with step S3120. When the character string surrounded with two tags, <Pcode> and </Pcode>, is detected, the character string detected by processing progressing to step S3122 from step S3121 is stored in P-code storage area 422c. This processing is performed about the whole mail current on display (step S3123).

[0368] In addition, the operation mode which bundles up the above-mentioned processing about the whole mail data held in the memory of a personal digital assistant 400, and performs it may be prepared.

[0369] The P code to which the personal digital assistant 400 of this operation gestalt has been sent as e-mail as mentioned above is storables in P-code storage area 422c. In addition, even when a P code is notified by not electronic data like e-mail but a journal, a newspaper, etc., a P code can be inputted using P code key and a dialing key, and it can also constitute making it hold to P-code storage area 422c so that it may be possible. And according to the personal digital assistant 400 of this operation gestalt, the P code stored in P-code storage area 422c can be inputted into P service terminal 100 by the communication link between P service terminals 100.

[0370] Drawing 110 is a flow chart explaining transmitting processing of the P code by the personal digital assistant of this operation gestalt. In addition, this processing is processing performed when the content of a display of a personal digital assistant 400 is in an initial state.

[0371] In step S3141, if it detects that the P code key 403 was operated, it will progress to step S3142 and will judge whether the P code is stored in P-code storage area 422c. If the P code is not stored in P-code storage area 422c, it progresses to step S3143, the purport to which a P code does not exist in a drop 410 is notified, and this processing is ended.

[0372] On the other hand, if the P code is stored in P-code storage area 422c in step S3142, it will progress to step S3144 and communications processing with P service terminal 100 will be started using the infrared communications department 405. And in step S3145, it judges whether P service terminal 100 is a ready, and waits to become a ready. When this latency time exceeds predetermined time, it is judged as a time-out, and progresses to step S3147 from step S3146, a drop 410 notifies a communication link error, and this processing is finished.

[0373] Now, if the ready of P service terminal 100 is checked, the P code stored in P-code storage area 422c in step S3148 will be transmitted to P service terminal 100.

[0374] If transmission is finished, in step S3149, an inquiry whether the P code stored in current P-code storage area 422c is eliminated will be performed using a drop 410. If a user directs elimination of a P code, a P code will be eliminated in step S3151.

[0375] Of course, the above processing can be applied, also when the connector 106 for personal digital assistants of P service terminal 100 is equipped with a personal digital assistant 400.

[0376] Moreover, although transmission is started by the key stroke of a personal digital assistant 400 in the above-mentioned processing, it is also possible to perform no key stroke by the side of a personal digital assistant, but to input a P code into P service terminal 100 automatically by control of P service terminal 100. Drawing 111 is a flow chart explaining other gestalten of transmitting processing of the P code by the personal digital assistant of this operation gestalt.

[0377] in step S3161, if it is detected that the connector 106 for personal digital assistants was equipped with the personal digital assistant, and a predetermined signal is notified to P service terminal by actuation of P code key through the infrared communications department or, in step S3162, the communication link between P service terminal and a personal digital assistant will be started.

[0378] If a P-code demand is inputted from P service terminal 100 by communication link, it will progress to step S3165 from step S3163, and will judge whether the P code is stored in P-code storage area 422c. When the P code is not stored, it progresses to step S3167, and the purport in which a P code does not exist is notified to P service terminal. On the other hand, if a P code exists in P-code storage area 422c, the P code progressed and stored in step S3166 will be transmitted to P service terminal 100.

[0379] Processing of step S3168 to the subsequent step S3170 is the same as processing of the above-mentioned step S3149 to the step S3151.

[0380] As mentioned above, since according to the personal digital assistant of this operation gestalt a P code is extracted from e-mail, it holds in memory and this can be transmitted to P service terminal, the input mistake in actuation of P service terminal 100 can be prevented, and operability improves by leaps and bounds.

[0381] Even if it applies this invention to the system which is operation gestalt > besides < and which consists of two or more devices (for example, a host computer, an interface device, a reader, a printer, etc.), it may be applied to the equipments (for example, a copying machine, facsimile apparatus, etc.) which consist of one device.

[0382] Moreover, it cannot be overemphasized by the object of this invention supplying the storage which recorded the program code of the software which realizes the function of the operation gestalt mentioned above to a system or equipment, and carrying out read-out activation of the program code with which the computer (or CPU and MPU) of the system or equipment was stored in the storage that it is attained.

[0383] In this case, the function of the operation gestalt which the program code itself read from the storage mentioned above will be realized, and the storage which memorized that program code will constitute this invention.

[0384] As a storage for supplying a program code, a floppy disk, a hard disk, an optical disk, a magneto-optic disk, CD-ROM, CD-R, a magnetic tape, the memory card of a non-volatile, ROM, etc. can be used, for example.

[0385] Moreover, it cannot be overemphasized that it is contained also when the function of the operation gestalt which performed a part or all of processing that OS (operating system) which is working on a computer is actual, based on directions of the program code, and the function of the operation gestalt mentioned above by performing the program code which the computer read is not only realized, but was mentioned above by the processing is realized.

[0386] Furthermore, after the program code read from a storage is written in the memory with which the functional expansion unit connected to the functional add-in board inserted in the computer or a computer is equipped, it cannot be overemphasized that it is contained also when the function of the operation gestalt which performed a part or all of processing that the CPU with which the functional add-in board and functional expansion unit are equipped based on directions of the program code is actual, and mentioned above by the processing is realized.

[0387]

[Effect of the Invention] As explained above, according to this invention, it can make it unnecessary to make a user input all the codes for identifying information, and the complicatedness and the incorrect input at the time of code input can be reduced.

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[Translation done.]

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**WRITTEN AMENDMENT**

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----- [procedure amendment]

[Filing Date] July 14, Heisei 12 (2000. 7.14)

[Procedure amendment 1]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 19

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 19] It has the predetermined input means into which the 1st code part decided beforehand is inputted by the user,

Said 1st code part is a terminal unit characterized by adding the 2nd predetermined code part and being outputted as a code which means predetermined processing.

[Procedure amendment 2]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 22

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 22] A means to input said information which should be registered,

Numbering equipment according to claim 21 characterized by having further a registration means to register with the code containing said main code part which was united in said information, and this sub-code part.

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[Translation done.]

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2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

**CORRECTION OR AMENDMENT**

[Kind of official gazette] Printing of amendment by the convention of 2 of Article 17 of Patent Law

[Category partition] The 3rd partition of the 6th category

[Publication date] February 28, Heisei 14 (2002. 2.28)

[Publication No.] JP,2000-357198,A (P2000-357198A)

[Date of Publication] December 26, Heisei 12 (2000. 12.26)

[Annual volume number] Open patent official report 12-3572

[Application number] Japanese Patent Application No. 11-283461

[The 7th edition of International Patent Classification]

G06F 17/60

3/12

13/00 354

17/30

H04L 12/54

12/58

H04M 11/08

[FI]

G06F 15/21 Z

3/12 A

13/00 354 D

H04M 11/08

G06F 15/40 310 F

15/403 310 Z

H04L 11/20 101 B

[Procedure amendment]

[Filing Date] July 31, Heisei 13 (2001. 7.31)

[Procedure amendment 1]

[Document to be Amended] Description

[Item(s) to be Amended] Claim

[Method of Amendment] Modification

[Proposed Amendment]

[Claim(s)]

[Claim 1] Are the approach of generating the code which means predetermined processing, and the 1st code part beforehand decided within said code The code generation approach characterized by generating the code which added to said 1st code part into which the 2nd predetermined code part was inputted through said input means, and was united with it, and outputting said unified code outside when inputted through a predetermined input means.

[Claim 2] Said processing is the code generation approach according to claim 1 characterized by being the processing which prints the information corresponding to said code.

[Claim 3] The code generation approach according to claim 1 characterized by outputting said code outside through a network.

[Claim 4] Said 1st code part is the code generation approach according to claim 1 characterized by including

the user-identification child who identifies a user.

[Claim 5] Said user-identification child is the code generation approach according to claim 4 characterized by including a user's subscriber phone number.

[Claim 6] Said 1st code part is the code generation approach according to claim 1 characterized by being the information identification code which specifies the information on said processing object.

[Claim 7] Said information identification code is the code generation approach according to claim 6 characterized by including the information provider identifier the information provider was beforehand decided to be.

[Claim 8] Furthermore, said 1st code part is the code generation approach according to claim 1 characterized by consisting of a part for the main code section, and a sub-code part.

[Claim 9] Said sub-code part is the code generation approach according to claim 8 characterized by including the predetermined notation showing the classification of said processing.

[Claim 10] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing e-mail.

[Claim 11] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing I/O of the data by the user.

[Claim 12] The predetermined notation showing the classification of said processing is the code generation approach according to claim 9 characterized by being a notation showing service using a frame.

[Claim 13] The code generation approach according to claim 12 characterized by for the service using said frame being choosing the frame which registered one or more of other codes, and being performing processing corresponding to one or more of other codes registered into the selected frame concerned.

[Claim 14] The code generation approach according to claim 13 characterized by the ability to perform registration of one or more codes, modification, and deletion to said frame by the user with service using said frame.

[Claim 15] Said code is the code generation approach according to claim 1 characterized by calling the processing corresponding to [ when linked from other codes ] a code besides the above in said processing.

[Claim 16] Said 2nd code part is the code generation approach according to claim 1 characterized by including the flag which distinguishes whether the information which identifies a user is included in said 1st code part, or the information which identifies an information provider is included.

[Claim 17] Said 2nd code part is the code generation approach according to claim 1 characterized by including version information.

[Claim 18] Said 2nd code part is the code generation approach according to claim 1 characterized by including country identification information.

[Claim 19] An input means by which the 1st code part beforehand decided on in the code generated is inputted,

A generation means to generate the code which added the 2nd predetermined code part to said 1st code part, and was united with it,

The terminal unit characterized by having an output means to output said generated code which means predetermined processing outside.

[Claim 20] It is the art showing predetermined processing of a code,

When the 1st code part is inputted, the 2nd code part is added to said 1st code part,

The art of a code which deals with united said 1st code part and 2nd code part as a code, and performs processing corresponding to this code.

[Claim 21] It is numbering equipment which numbers the code which identifies information,

A grant means to give a part for the main code section which identifies an information input user to the information which should be registered,

Numbering equipment possessing a numbering means to number the code which identifies said information which contains said main code part and said sub-code part by adding the sub-code part relevant to said information which should be registered to said main code part.

[Claim 22] An information input means to input said information which should be registered,

Numbering equipment according to claim 21 characterized by having further a registration means to register said inputted information with said numbered code.

[Claim 23] Said information which should be registered is numbering equipment according to claim 21 characterized by being advertising information.

[Claim 24] Said information which should be registered is numbering equipment according to claim 21 characterized by being the information that it does not advertise.

[Claim 25] Said information which should be registered is numbering equipment according to claim 21 characterized by being a user's dispatch information.

[Claim 26] Said information which should be registered is numbering equipment according to claim 21 characterized by being mail addressed to a user.

[Claim 27] Said information which should be registered is numbering equipment according to claim 21 characterized by being frame information.

[Claim 28] Said frame is numbering equipment according to claim 27 characterized by the ability to print the information corresponding to said one or more of other codes, when it is possible to register one or more of other codes and printing of this frame is specified.

[Claim 29] Furthermore, numbering equipment according to claim 21 characterized by having an assignment means to specify the code which identifies said information.

[Claim 30] When a part for the main code section of the code which should be linked is specified with said assignment means, said numbering means is numbering equipment according to claim 29 characterized by adding the sub-code part which is not used among the sub-code parts corresponding to said main code part to said main code part, and numbering the code which identifies said information.

[Claim 31] Said numbering means is numbering equipment according to claim 29 characterized by numbering the code which identifies said information containing a part for the main code section which identifies the user concerned, and said specified sub-code part, when the sub-code part corresponding to said main code is specified by the user to whom said main code part is assigned.

[Claim 32] Furthermore, it has a deletion means to direct to delete said code,

The code to which it pointed so that it might delete with said deletion means is numbering equipment according to claim 21 characterized by being deleted with the information corresponding to this code.

[Claim 33] Said main code part is numbering equipment according to claim 21 characterized by including the identification code showing a registration place.

[Claim 34] Said main code part is numbering equipment according to claim 21 characterized by including a user's identification code.

[Claim 35] It is the numbering approach of numbering the code which identifies information,

The grant process which gives a part for the main code section which identifies an information input user to the information which should be registered,

The numbering approach of providing the numbering process which numbers the code which identifies said information which contains said main code part and said sub-code part by adding the sub-code part relevant to said information which should be registered to said main code part.

[Claim 36] It is the storage which stored the program which generates the code which means predetermined processing,

When the 1st code part decided beforehand is inputted through a predetermined input means within said code, the code which added to said 1st code part into which the 2nd predetermined code part was inputted through said input means, and was united with it is generated,

The storage which stored the code generation program which is characterized by outputting said unified code outside, and in which computer reading is possible.

[Claim 37] It is the storage which stored the numbering program which numbers the code which identifies information,

The grant process which gives a part for the main code section which identifies an information input user to the information which should be registered,

The storage which stored the numbering program which has the numbering process which numbers the code which identifies said information which contains said main code part and said sub-code part by adding the sub-code part relevant to said information which should be registered to said main code part, and in which computer reading is possible.

[Procedure amendment 2]

[Document to be Amended] Description

[Item(s) to be Amended] 0005

[Method of Amendment] Modification

[Proposed Amendment]

[0005] In order to attain the above-mentioned technical problem the code generation approach according to claim 1 Are the approach of generating the code which means predetermined processing, and the 1st code part beforehand decided within said code When inputted through a predetermined input means, the code which added to said 1st code part into which the 2nd predetermined code part was inputted through said

input means, and was united with it is generated, and it is characterized by outputting said unified code outside.

[Procedure amendment 3]

[Document to be Amended] Description

[Item(s) to be Amended] 0023

[Method of Amendment] Modification

[Proposed Amendment]

[0023] A terminal unit according to claim 19 is characterized by to have a generation means generate the code which added the 2nd predetermined code part to an input means to by \_which the 1st code part beforehand decided on in the code generated is inputted, and said 1st code part, and united with them, and an output means output said generated code which means predetermined processing outside.

[Procedure amendment 4]

[Document to be Amended] Description

[Item(s) to be Amended] 0024

[Method of Amendment] Modification

[Proposed Amendment]

[0024] The art of a code according to claim 20 is an art showing predetermined processing of a code, and when the 1st code part is inputted, it is characterized by adding the 2nd code part to said 1st code part, dealing with united said 1st code part and 2nd code part as a code, and performing processing corresponding to this code.

[Procedure amendment 5]

[Document to be Amended] Description

[Item(s) to be Amended] 0025

[Method of Amendment] Modification

[Proposed Amendment]

[0025] Numbering equipment according to claim 21 is numbering equipment which numbers the code which identifies information, and possesses a numbering means number the code which discriminates said information which contains said main code part and said sub-code part by adding the sub-code part relevant to said information which should register to said main code part from a grant means give a part for the main code section which identifies an information input user, to the information which should register.

[Procedure amendment 6]

[Document to be Amended] Description

[Item(s) to be Amended] 0026

[Method of Amendment] Modification

[Proposed Amendment]

[0026] Numbering equipment according to claim 22 is numbering equipment concerning claim 21, and is characterized by having further an information input means to input said information which should be registered, and a registration means to register said inputted information with said numbered code.

[Procedure amendment 7]

[Document to be Amended] Description

[Item(s) to be Amended] 0033

[Method of Amendment] Modification

[Proposed Amendment]

[0033] Numbering equipment according to claim 29 is numbering equipment concerning claim 21, and is characterized by having an assignment means to specify further the code which identifies said information.

[Procedure amendment 8]

[Document to be Amended] Description

[Item(s) to be Amended] 0034

[Method of Amendment] Modification

[Proposed Amendment]

[0034] Numbering equipment according to claim 30 is numbering equipment concerning claim 29, and if a part for the main code section of the code which should be linked specifies with said assignment means, it will be characterized by for said numbering means to add the sub-code part which is not used among the sub-code parts corresponding to said main code part to said main code part, and to number the code which identifies said information.

[Procedure amendment 9]

[Document to be Amended] Description

[Item(s) to be Amended] 0035

[Method of Amendment] Modification

[Proposed Amendment]

[0035] Numbering equipment according to claim 31 is numbering equipment concerning claim 29, and said numbering means will be characterized by numbering the code which identifies said information containing a part for the main code section which identifies the user concerned, and said specified sub-code part, if the sub-code part corresponding to said main code is specified by the user to whom said main code part is assigned.

[Procedure amendment 10]

[Document to be Amended] Description

[Item(s) to be Amended] 0036

[Method of Amendment] Modification

[Proposed Amendment]

[0036] Numbering equipment according to claim 32 is numbering equipment according to claim 21, and is characterized by deleting the code to which it pointed so that it might have a deletion means to direct to delete said code further and might delete with said deletion means with the information corresponding to this code.

[Procedure amendment 11]

[Document to be Amended] Description

[Item(s) to be Amended] 0039

[Method of Amendment] Modification

[Proposed Amendment]

[0039] The numbering approach according to claim 35 is the numbering approach of numbering the code which identifies information, and possesses the numbering process which numbers the code which discriminates said information which contains said main code part and said sub-code part by adding the sub-code part relevant to said information which should be registered to said main code part from the grant process which gives a part for the main code section which identifies an information input user to the information which should register.

[Procedure amendment 12]

[Document to be Amended] Description

[Item(s) to be Amended] 0040

[Method of Amendment] Modification

[Proposed Amendment]

[0040] The storage which stored the code generation program in which computer reading according to claim 36 is possible It is the storage which stored the program which generates the code which means predetermined processing. When the 1st code part decided beforehand is inputted through a predetermined input means within said code The code which added to said 1st code part into which the 2nd predetermined code part was inputted through said input means, and was united with it is generated, and it is characterized by outputting said unified code outside.

[Procedure amendment 13]

[Document to be Amended] Description

[Item(s) to be Amended] 0041

[Method of Amendment] Modification

[Proposed Amendment]

[0041] The storage which stored the numbering program in which computer reading according to claim 37 is possible The grant process which gives a part for the main code section which is the storage which stored the numbering program which numbers the code which identifies information, and identifies an information input user to the information which should be registered, It has the numbering process which numbers the code which identifies said information containing said main code part and said sub-code part by adding the sub-code part relevant to said information which should be registered to said main code part.

[Procedure amendment 14]

[Document to be Amended] Description

[Item(s) to be Amended] 0042

[Method of Amendment] Deletion

[Procedure amendment 15]

[Document to be Amended] Description

[Item(s) to be Amended] 0043

[Method of Amendment] Deletion

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[Translation done.]

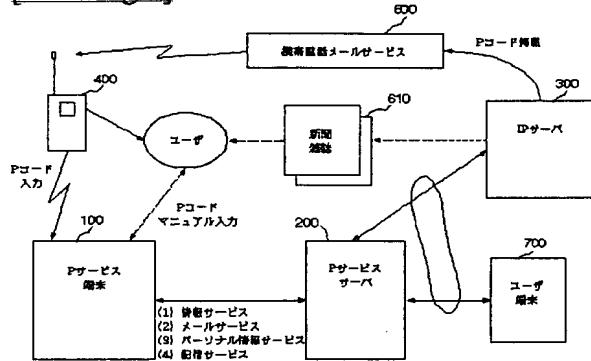
## \* NOTICES \*

JPO and NCIPPI are not responsible for any damages caused by the use of this translation.

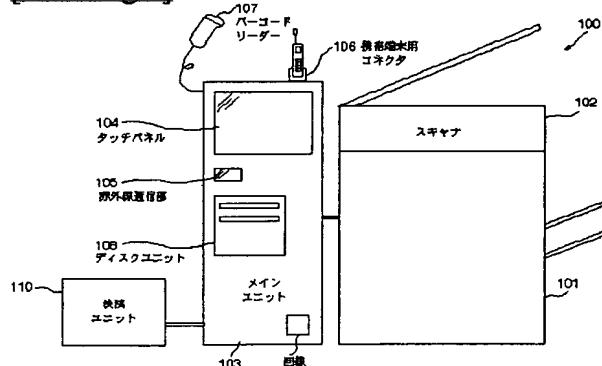
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## DRAWINGS

## [Drawing 1]



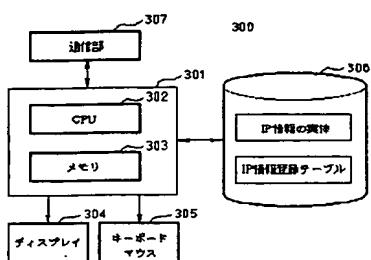
## [Drawing 2]



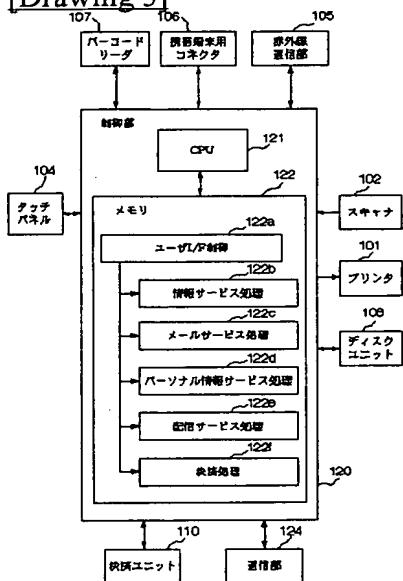
## [Drawing 8]

広告情報テーブル		
P-Code	広告プロパティ	オーナーID
		広告の掲載開始日 広告の期限 IP情報へのリンク情報  広告のサイズ 位置き・横置き 広告のサイズ調整法 広告掲載位置の設定 上限金額 広告価格情報(単価) 上限回数 現在の回数 文
リンク	実体ファイル情報	リンク方法の種別 ターゲットキーワードリスト ターゲットキーワードの重みリスト  P-Code ファイルの数 ファイル名(ファイル数分のリスト)

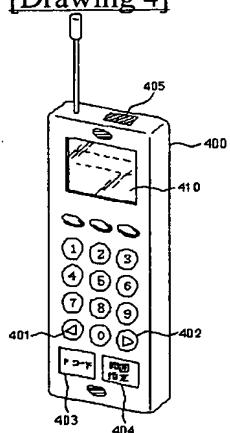
## [Drawing 16]



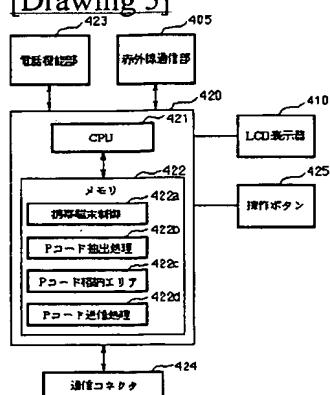
[Drawing 3]

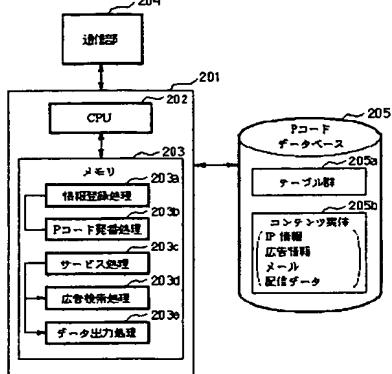


[Drawing 4]



[Drawing 5]



[Drawing 6][Drawing 7]

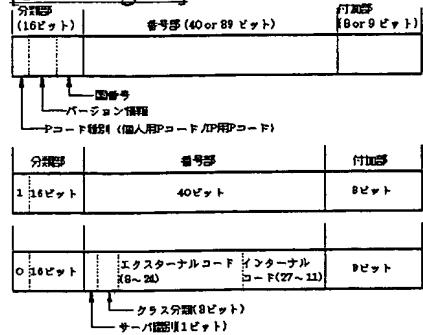
IP情報登録テーブル			
P-Code	識別部 属性部	Sub-Code部 Sub-Codeを持つかどうかのフラグ リンク オーナーID タイトル サブタイトル(サマリー) ステータス 情報価格 ワイヤ 広告掲載可否条件 情報への暗証番号(パスワード) 情報の掲載開始日 情報の有効期限 コードの有効期限 最大最小料金 最小小額/最大料金 ジャンル サブジャンル 地域コード キーワードリスト キーワードの重みリスト	リンク先P-Code 登録済、利用可能、休止、廃止 地域特性のある情報の場合
	Frame情報	P-Code	
	リンク情報	この情報にリンクしているP-Code	
	実体ファイル情報	ファイルの数 ファイル名(ファイル数分のリスト)	

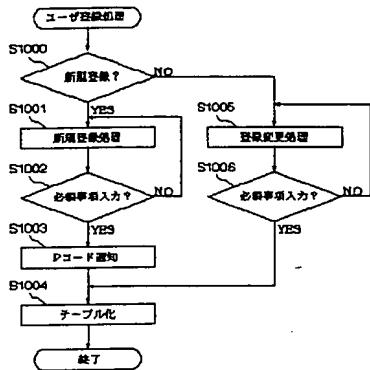
[Drawing 10]

メールサービス用P-Codeテーブル	
P-Code(電話番号#番号)	Mailのプロパティ Subject 送信者 送信日時

[Drawing 11]

記憶サービス用P-Codeテーブル	
P-Code(電話番号-番号)	登録情報のプロパティ タイトル※ 情報登録日 情報の有効期限 情報への暗証番号(パスワード)
実体のファイル情報	ファイルの数 ファイル名(ファイル数分のリスト)

[Drawing 17][Drawing 21]



[Drawing 9]

ユーザ情報テーブル

ユーザのP-Code(電話番号)	ユーザプロファイル	郵便番号 住所 国用するサービスの種類 会社名 乗務ID 乗務(その他の場合) 部署名 役職 職務 印刷用紙情報  生年月日/血族型/性別 最終学年/就業D/就業(その他の場合) 既婚/独身/家族数/収入/貯蓄額 所持家財額/車/持汽量/車種 バイク/持汽量/車種 持っているペット/欲しいペット 遊び/音楽/嗜好 スポーツ/説教/やるスポーツ/釣り 飲食のあるジャンル(飲んで情報)(IDリスト)  别JDBへ  メールの個数 最大並大項目値 最小並小項目値 P-Codeリスト(問い合わせの数分)  登録データの個数 P-Codeリスト(登録データの数分)  Frameデータの個数 P-Codeリスト(Frameデータの数分)	
個人情報テーブル			
メールサービス用情報			
配信サービス用情報			
パーソナル情報サービス用情報			

[Drawing 12]

パーソナル情報サービス用P-Codeテーブル

P-Code(電話番号)番号	Personal P-Code用情報のプロパティ	タイトル 登録印刷日 印刷用紙情報	レイアウト優先順位 用紙サイズ 用紙の方向 広告の料(表面使用等)
登録P-Code情報		登録P-Codeの数	P-Codeリスト(Frameを指す)

[Drawing 13]

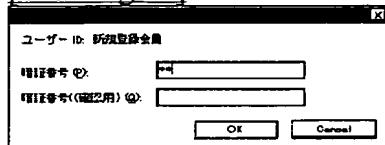
個人情報テーブル

User-ID	ふりがな(姓) ふりがな(名) 氏名(姓) 氏名(名) 氏名(Middle name) 郵便番号 住所 電話番号 FAX番号 携帯番号 E-Mail Address 識証番号 会社名 乗務ID 乗務(その他の場合) 部署名 役職 職務 会社郵便番号 会社住所 会社電話番号 会社FAX番号 保金先情報  使用ディスク領域情報 保全実績		レイアウト優先順位 用紙サイズ 用紙の方向 広告の料(表面使用等)
		決済用クレジットカード会社 カード番号 カードの有効期限	

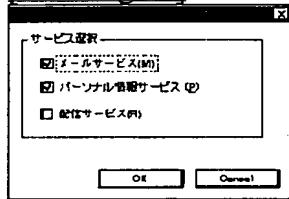
[Drawing 14]

オーナー情報テーブル	
User-ID	個人情報テーブルに同じ
会社名/氏名	
会社IBAN番号	
会社住所	
会社電話番号	
会社FAX番号	
担当者名/Mail Address	
印鑑番号	
郵便番号	
郵便局	
車種(その他の場合)	
部署名	
休止先情報	
使用ディスク領域情報	
請求実績	
	うき落とし銀行 引き落とし銀行口座 契約期間

### [Drawing 24]



## [Drawing 27]

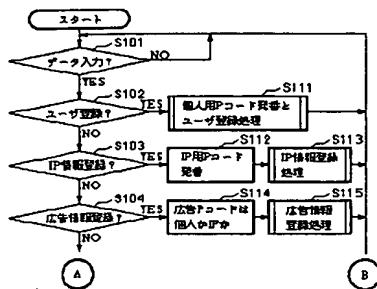


### [Drawing 15]

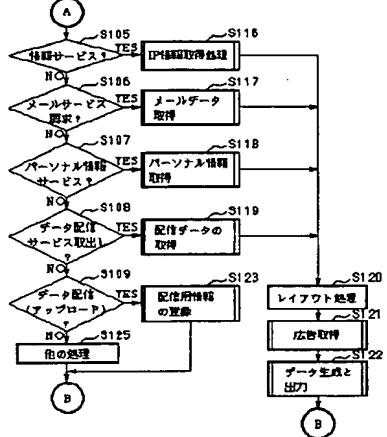
端末情報テーブル	
端末ID	
オーナーID	
地図情報	
端末形式	
地図情報	
端末バージョン	
端末ソフトバージョン	
端末入力機器情報	
端末記憶装置容量	
端末出力機器情報	
言語	
印刷能力	
端末状態情報	
国	
住所	
用紙サイズ	
両面／片面	
カラ／モノクロ	
印刷スピード	
フォント	
印刷スプール状態	
記憶装置空き情報	
P-Cacheキャッシュ状況	

### [Drawing 18]

### [Drawing 19]



[Drawing 20]



[Drawing 21]

User ID: 新規登録会員

氏名・姓別 (W)	1000	性別番号 (P)	1010
	1020		1030
勤務先 (A)		クレジットカード (C)	
	1040		1050
サービス (S)		個人情報 (W)	1060
	1060	URL入力情報 (U)	1070
個人情報2 (Q)			1080
	1080	お好み10選の登録 (B)	1090
会員登録 (P)			

OK Cancel

[Drawing 22]

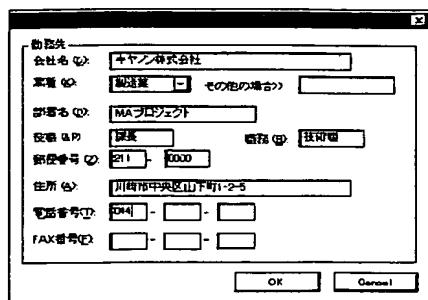
ふりがな (H) こすぎ たちう  
氏名 (N) 小さ 太郎

自宅

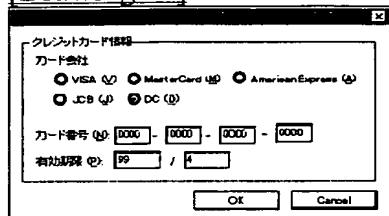
郵便番号 (C)	211 - 0000
(住所) (A)	東京都新宿区小滝町6丁目10-2
電話番号 (D)	
FAX番号 (D)	
携帯電話番号 (G)	090 - 1234 - 5678
E-Mail Address (E)	hongo@sample.com

OK Cancel

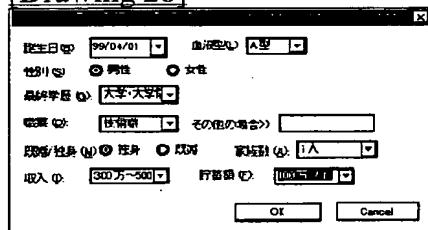
[Drawing 23]



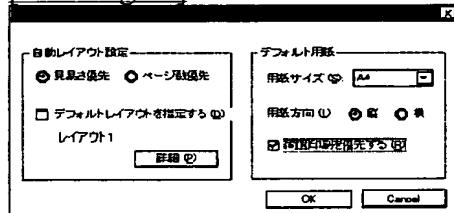
[Drawing 26]



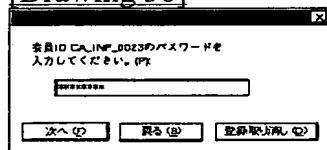
[Drawing 28]



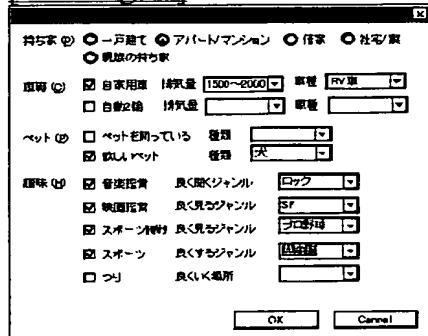
[Drawing 31]



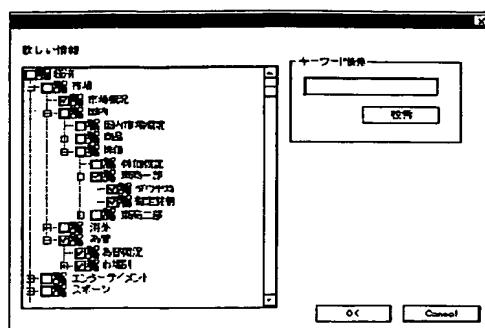
[Drawing 36]



[Drawing 29]



[Drawing 30]



[Drawing 32]

User ID: 0900193-657

氏名・住所 (Q)	確認番号 (Q)
1000'	1010'
郵便番号 (A)	クレジットカード (C)
1020'	1030'
会員登録用 (Q)	個人情報 (U)
1040'	1050'
個人情報2 (Q)	個人情報 (U)
1060'	1070'
印鑑登録 (Q)	印鑑登録 (U)
1080'	1090'
印鑑登録の登録 (U)	

OK Cancel

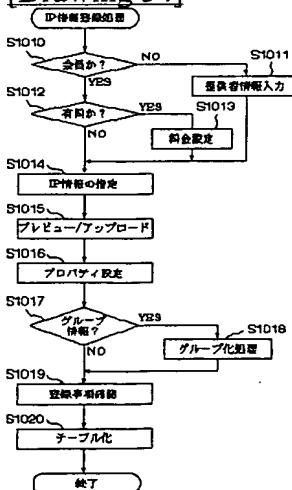
[Drawing 33]

ユーザーID: 0900297251

現在の確認番号 (C):	*****
確認番号 (C):	*****
確認番号(確認用) (Q):	*****

OK Cancel

[Drawing 34]



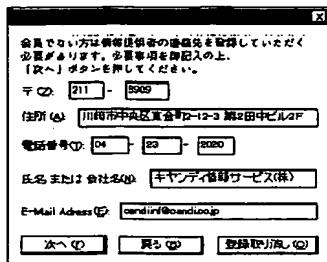
[Drawing 35]

「会員ですか？」

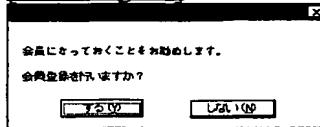
はい (Q) 会員番号 (C): CA-00023  
 いいえ (Q)

次へ (B) 戻り先 (C)

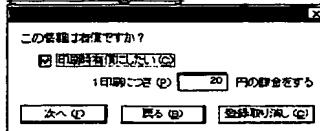
[Drawing 37]



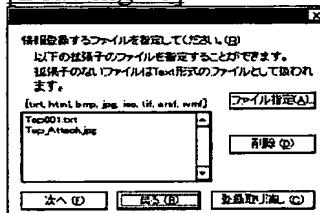
[Drawing 38]



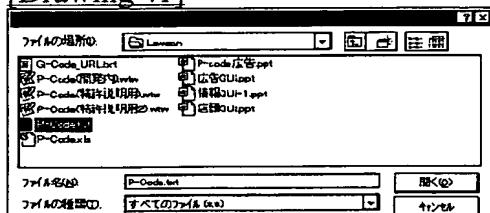
[Drawing 39]



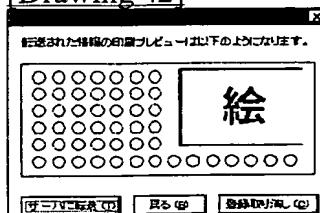
[Drawing 40]



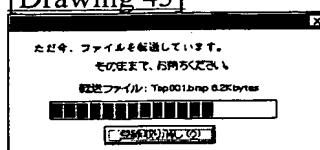
[Drawing 41]

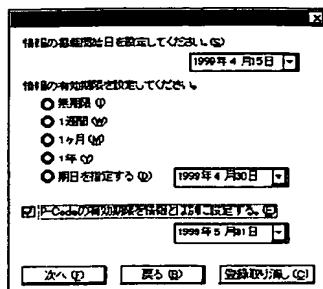


[Drawing 42]

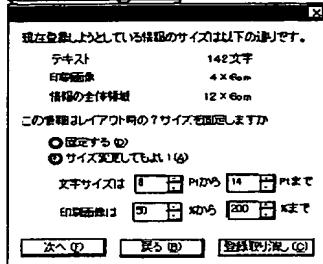


[Drawing 43]

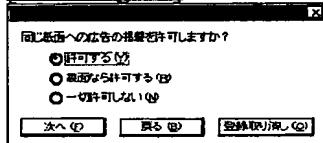




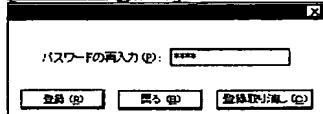
[Drawing 45]



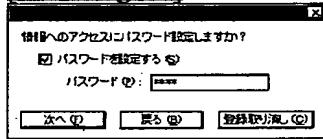
[Drawing 46]



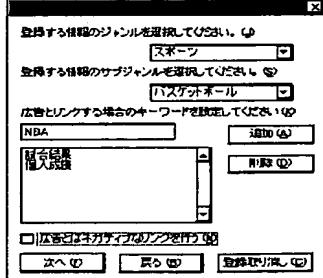
[Drawing 48]



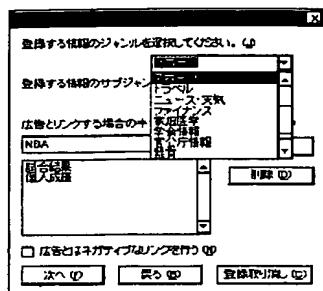
[Drawing 47]



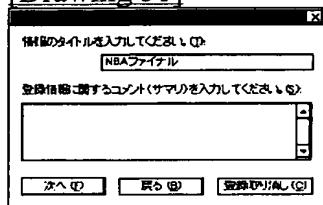
[Drawing 49]



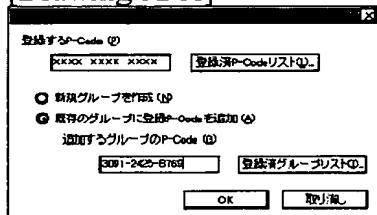
[Drawing 50]



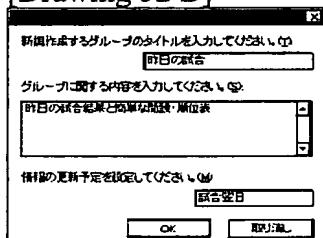
[Drawing 51]



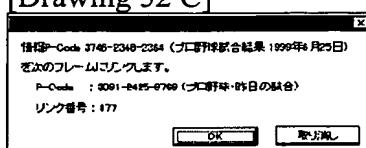
[Drawing 52 A]



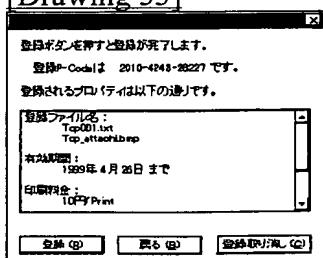
[Drawing 52 B]



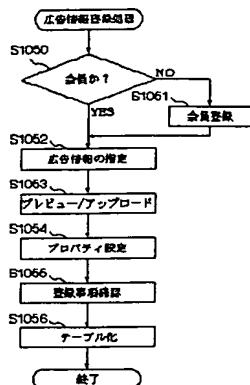
[Drawing 52 C]



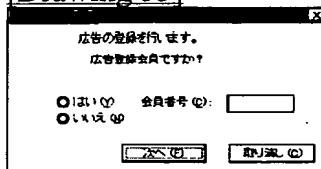
[Drawing 53]



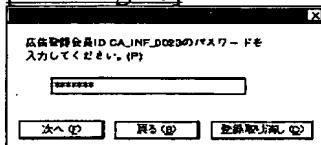
[Drawing 54]



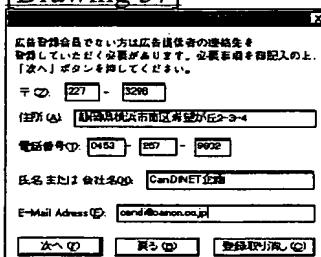
[Drawing 55]



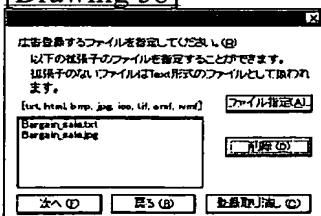
[Drawing 56]



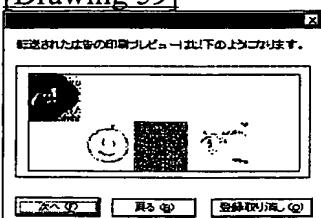
[Drawing 57]



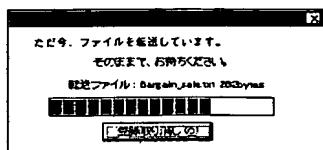
[Drawing 58]



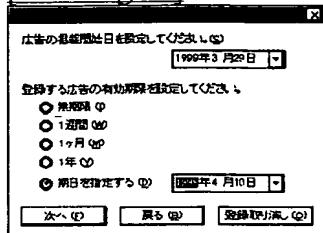
[Drawing 59]



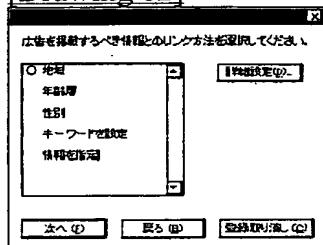
[Drawing 60]



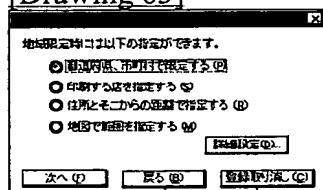
[Drawing 61]



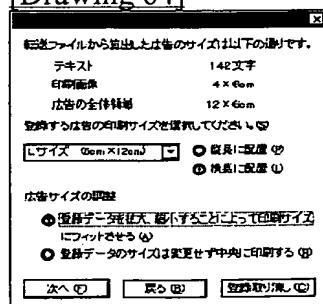
[Drawing 62]



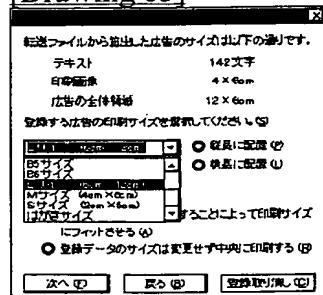
[Drawing 63]



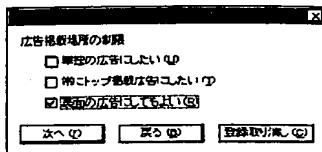
[Drawing 64]



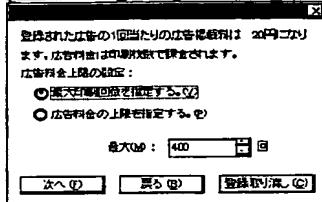
[Drawing 65]



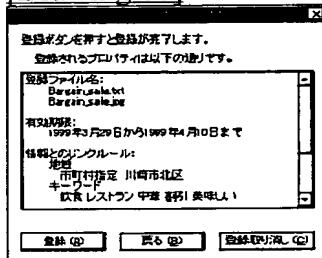
[Drawing 66]



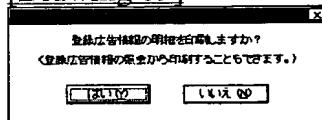
[Drawing 67]



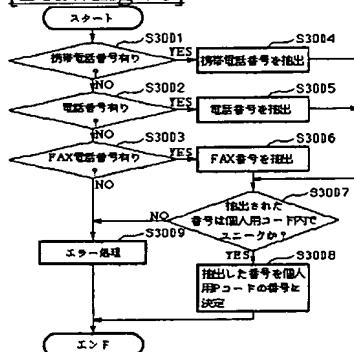
[Drawing 68]



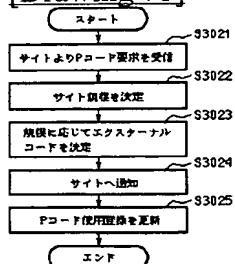
[Drawing 69]



[Drawing 70]



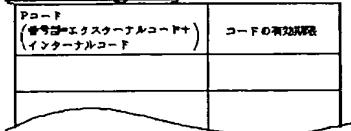
[Drawing 71]



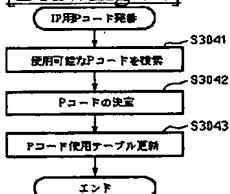
[Drawing 72]

規格	エクステンナルコード	URL
④小規格		
小規格		
中規格		
大規格		
⑤大規格		

[Drawing 73]



[Drawing 74]



[Drawing 75]

P-Codeサービス

P-Codeの入力方法を選択してください

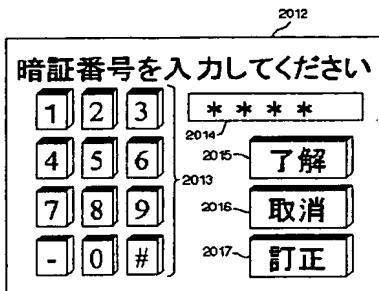
タッチパネルで入力	2001
携帯電話から入力	2002
ハンディスキャナ入力	2003
配信サービスはここを押してください	

[Drawing 76]

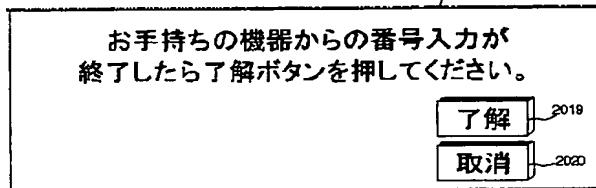
コードを入力してください

1	2	3	1842-332		
4	5	6	了解		
7	8	9	取消		
-	0	#	訂正		
海外の情報はここを押してください					

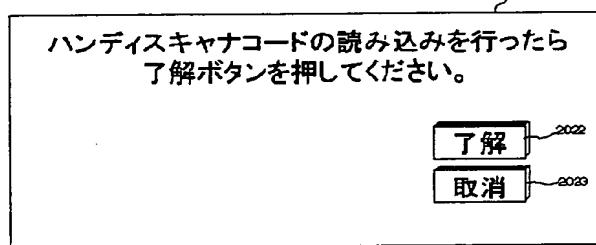
[Drawing 77]



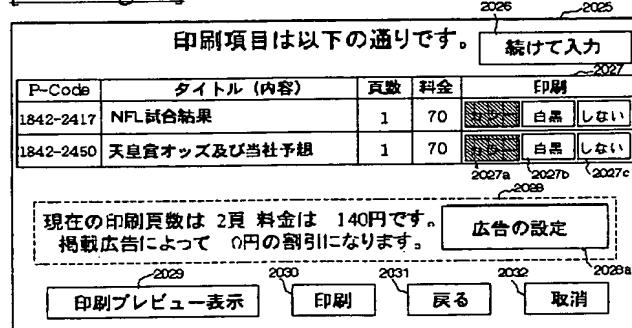
[Drawing 78]



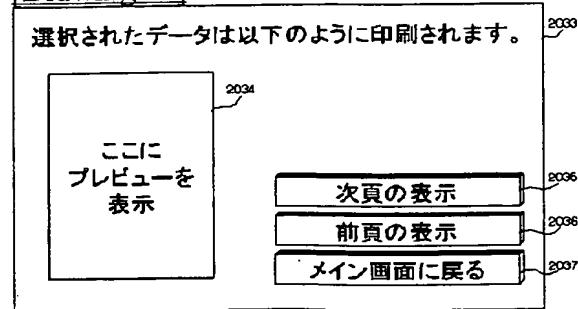
[Drawing 79]



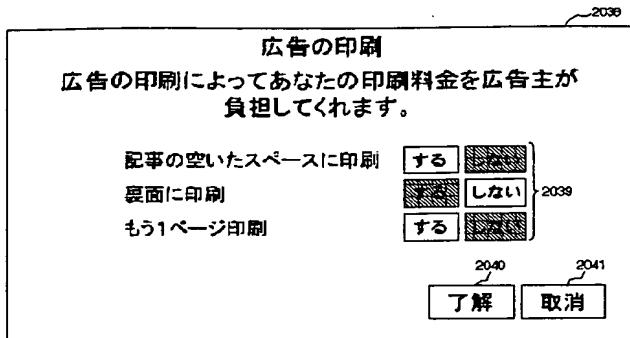
[Drawing 80]



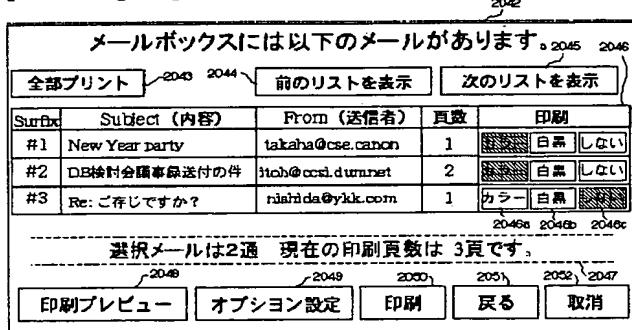
[Drawing 81]



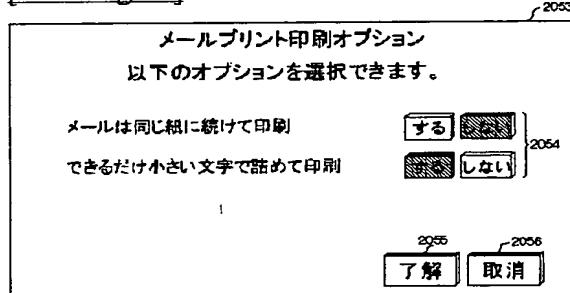
[Drawing 82]



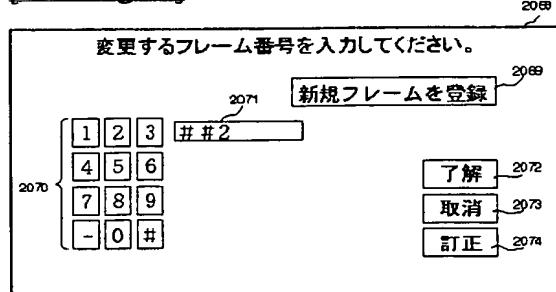
[Drawing 83]



[Drawing 84]



[Drawing 86]



[Drawing 85]

2058 登録フレームは以下の通りです。 2059 2060 2061 2057

<b>全部プリント</b>	<b>前のリストを表示</b>	<b>次のリストを表示</b>
---------------	-----------------	-----------------

Surfix	内容	頁数	印刷
##1	釣果情報/明日の天気/西伊豆釣船予約情報	1	<input checked="" type="checkbox"/> しない
##2	シングルCDランキング/アルバムランキング/新曲情報	3	<input type="checkbox"/> する <input checked="" type="checkbox"/>
##3	大相撲星取表/プロ野球昨日の試合結果	1	<input type="checkbox"/> する <input checked="" type="checkbox"/>

2061a 2061b  
選択情報は2件 現在の印刷頁数は 4頁です。 2062

<b>情報登録・変更</b>	<b>印刷プレビュー</b>	<b>印刷</b>	<b>戻る</b>	<b>取消</b>
----------------	----------------	-----------	-----------	-----------

2063 2064 2065 2066 2067

[Drawing 87]

登録フレーム##2の内容は以下の通りです。 2077 2078 2076～ 2075

<b>P-Code</b>	<b>内容</b>	<b>登録</b>
6982-9243-2311	シングルCDランキング	<input checked="" type="checkbox"/> しない
6982-9243-2302	アルバムランキング	<input checked="" type="checkbox"/> しない
6990-0238-3765	新曲情報	<input type="checkbox"/> する <input checked="" type="checkbox"/>

2078a 2078b  
新規P-Codeの追加 2079  
2080 2081 2082  
了解 戻る 取消

[Drawing 88]

フレーム用紙サイズを選択してください。 2083

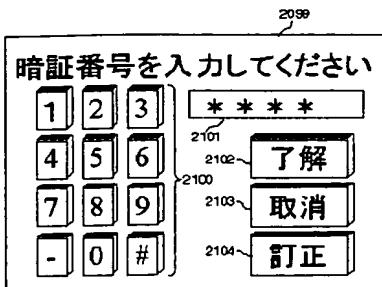
A3 2084	B4 2085	A4 2086
横置 2087	縦置 2088	了解 2089 戻る 2090 取消 2091

[Drawing 89]

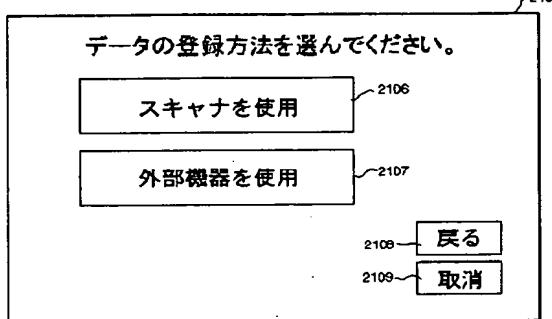
電話番号を入力してください 2092

1 2 3 2094	09027648234
4 5 6 2095	了解 2098
7 8 9 2096	取消 2096～
- 0 # 2097	訂正 2097～
海外の電話はここを押してください 2099	

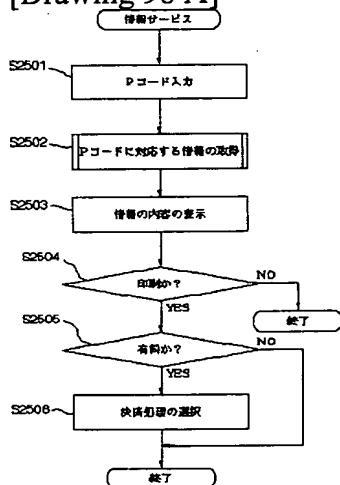
[Drawing 90]



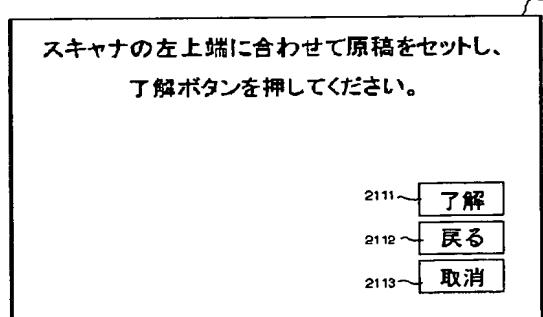
[Drawing 91]



[Drawing 98 A]



[Drawing 92]



[Drawing 93]

登録されたデータは以下のように印刷されます。

ここに プレビューを 表示	2115
2116 次へ	
2117 更に別のデータを登録	
2118 登録取消	
2119 了解	

[Drawing 94]

登録データの暗証番号を設定してください。

2121	2122												
<table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>-</td><td>0</td><td>#</td></tr> </table>	1	2	3	4	5	6	7	8	9	-	0	#	****
1	2	3											
4	5	6											
7	8	9											
-	0	#											
2123 了解													
2124 取消													
2125 訂正													

[Drawing 95]

登録データの有効期限を設定してください。

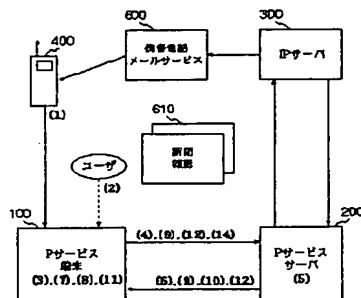
2127 明日まで	2126
2128 1週間	
2129 1ヶ月	2130 戻る
	2131 取消

[Drawing 96]

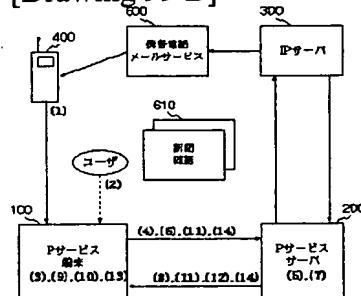
お預かりしたデータは以下の通りです。  
了解ボタンで明細が印刷されます。

2133 登録P-Code	09027648234-4	2132
データ暗証番号	*****	
2134 登録データ	画像480KBytes	
2135 有効期限	1週間（4月10日まで）	
2136 了解		
2137		
2138 取消		

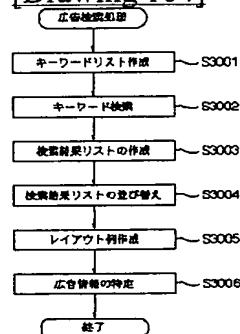
[Drawing 98 B]



[Drawing 99 B]



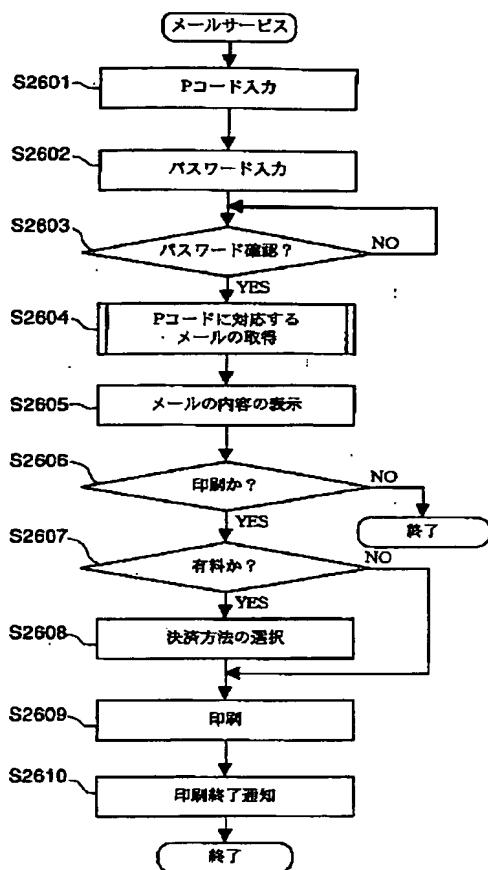
[Drawing 104]



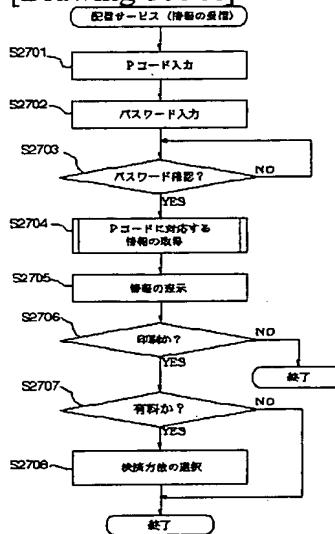
[Drawing 97]

Detailed description: A user interface titled 'P-Codeサービス'. It displays five payment method options: '現金で支払う' (2201), 'デビッドカード' (2204), 'クレジットカード' (2202), 'プリペイドカード' (2205), and 'オンライン決済' (2203). Below these options, a message states '料金は 240円です。' (The amount is 240 yen). At the bottom right are two buttons: '戻る' (2206) and '取消' (2207).

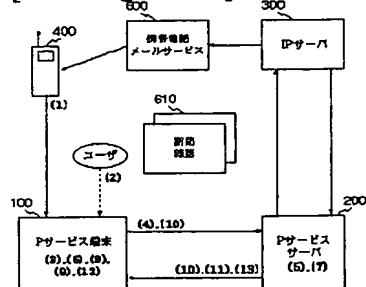
[Drawing 99 A]



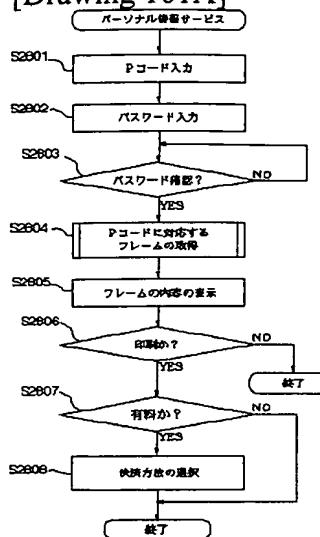
[Drawing 100 A]



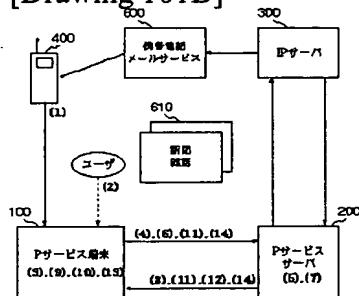
[Drawing 100 B]



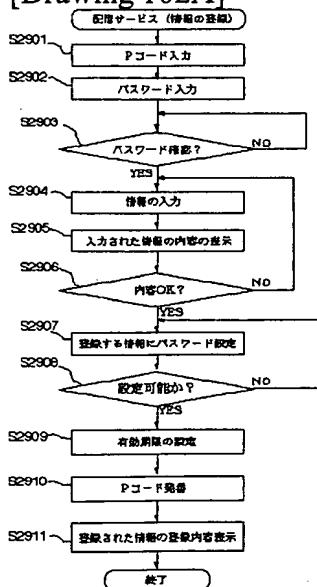
## [Drawing 101A]



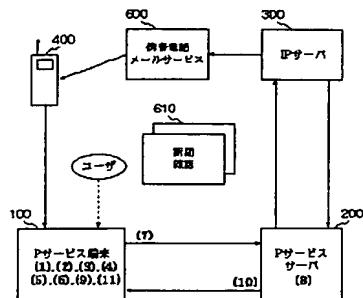
## [Drawing 101B]



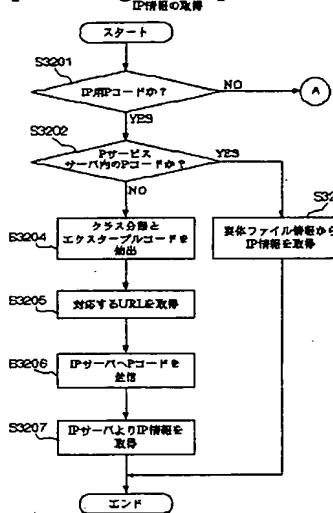
## [Drawing 102A]



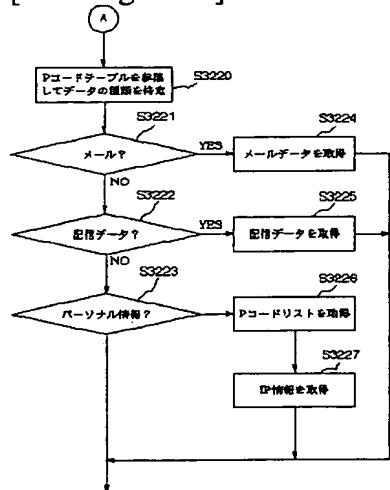
## [Drawing 102B]



[Drawing 103A]



[Drawing 103B]



[Drawing 105]

IP情報リスト			ユーザ登録リスト		
キーワード	重み	Pコード	キーワード	重み	Pコード
結婚	+10		東京都	+1	
25才	+1				

(a)

(b)

Pサービス端末リスト			最上位リスト		
キーワード	重み	Pコード	キーワード	重み	Pコード
埼玉県	+1		入会	+5	
			中華料理	+4	

(c)

(d)

最下位リスト		
キーワード	重み	Pコード
東京都	+1	
神奈川	+1	

(e)

**[Drawing 106]**

IP情報リストの検索結果リスト			ユーザ登録リストの検索結果リスト		
キーワード	重み	Pコード	キーワード	重み	Pコード
結婚	+10	+++	東京都	+2	@@+
-5	* * *	-50	+8	+-*	+8
+3	--	+30	-2	@++	-2
-4	+-+	-40	25才	+10	@**
+7	* - *	+70			+10

(a)

(b)

Pサービス端末リストの検索結果リスト		
キーワード	重み	Pコード
埼玉県	+10	++@
+5	* ++	+5
-5	@ * @	-5

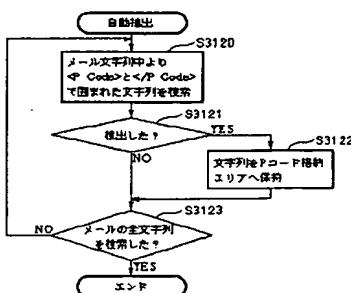
(c)

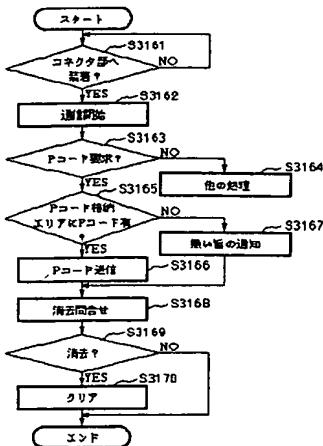
最上位リストの検索結果リスト		
キーワード	重み	Pコード
入会	+10	++/
+3	* / *	+15
中華料理	+3	% % %
-4	\$ \$ \$	-10
+7	% & %	+28

(d)

最下位リストの検索結果リスト		
キーワード	重み	Pコード
東京都	+1	++
-2	* *&	-2
神奈川県	+2	\$-
-2	+-&	-2
+1	* -\$	+1

(e)

**[Drawing 109]**  
メール表示中、自動戻り F7退出**[Drawing 111]**



[Drawing 107]

IP情報リストの検索結果リスト			
キーワード	重み	Pコード	合致度
結婚	+7	* - *	+85
	+10	+++	+80
	+3	++	+30
	-5	* * *	-30
	-4	+-+	-45

(a)

ユーザ登録リストの検索結果リスト			
キーワード	重み	Pコード	合致度
東京都	+8	+-*	+10
	-2	@++	+1
	+2	@@+	-1
	257	+10	+10

(b)

Pサービス端末リストの検索結果リスト			
キーワード	重み	Pコード	合致度
埼玉県	+10	++@	+15
	+5	* ++	+3
	-5	@ * @	-8

(c)

最上位リストの検索結果リスト			
キーワード	重み	Pコード	合致度
入会	+10	++/	+40
	+3	* / *	+10
中華料理	+7	% & %	+25
	+3	% % %	+20
	-4	\$ \$ \$	-5

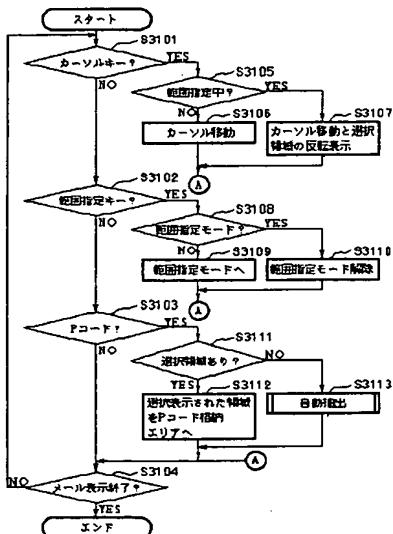
(d)

最下位リストの検索結果リスト			
キーワード	重み	Pコード	合致度
東京都	2	* * &	+4
	+1	+ & +	-5
神奈川県	+2	\$ --	+10
	-2	+ &	-1
	+1	* - \$	-5

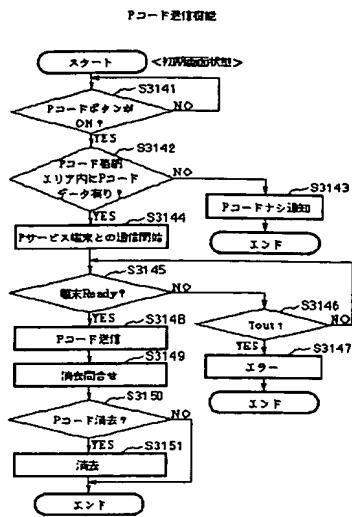
(e)

[Drawing 108]

メール受取、メール内容表示



[Drawing 110]



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[Translation done.]